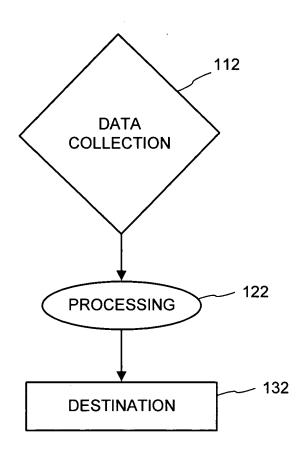
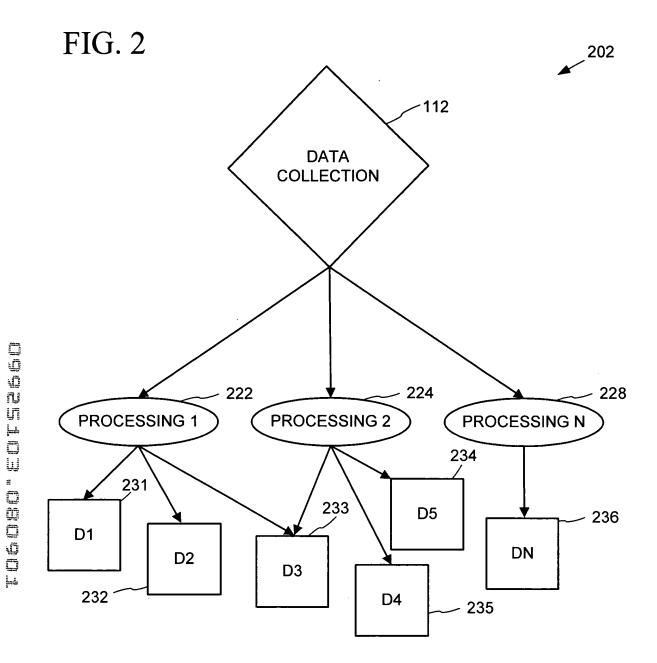
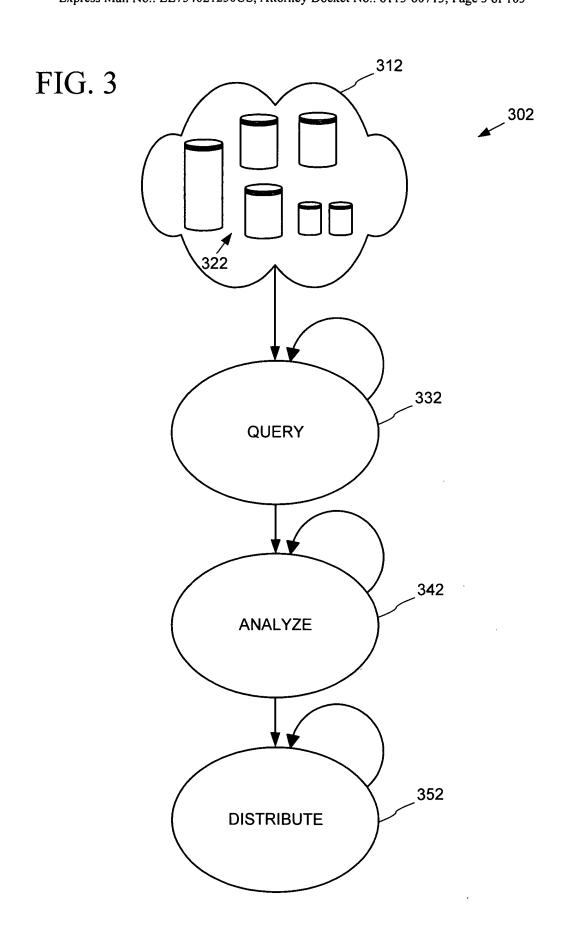
FIG. 1

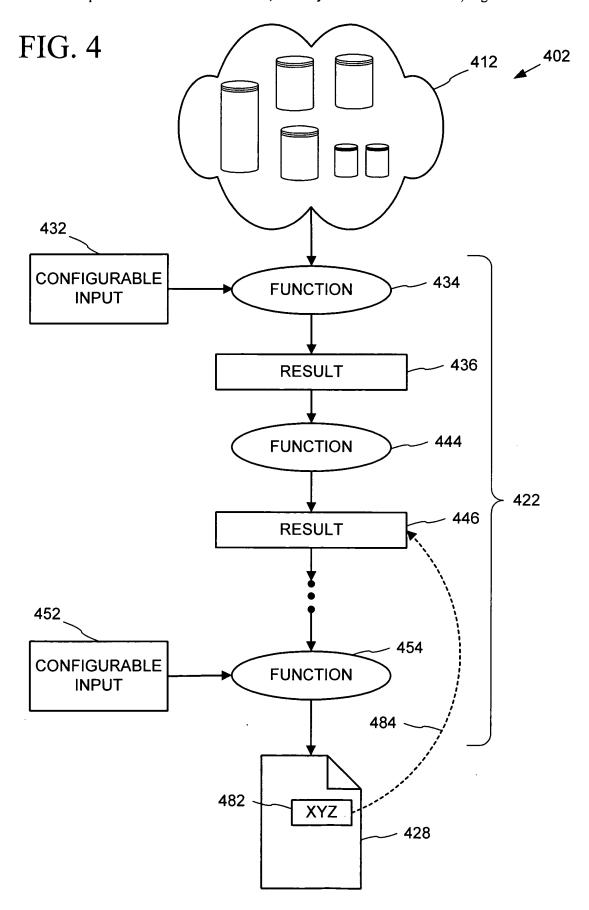




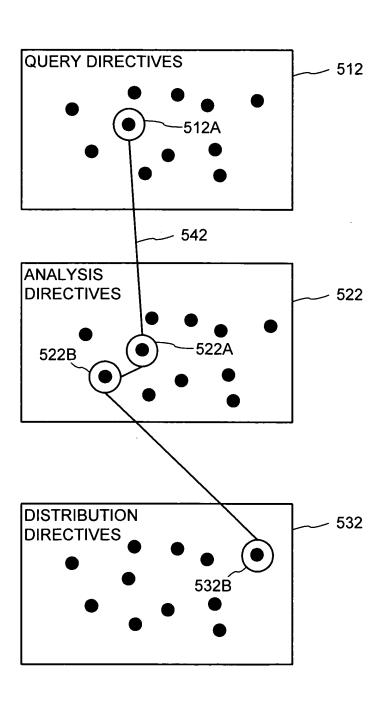
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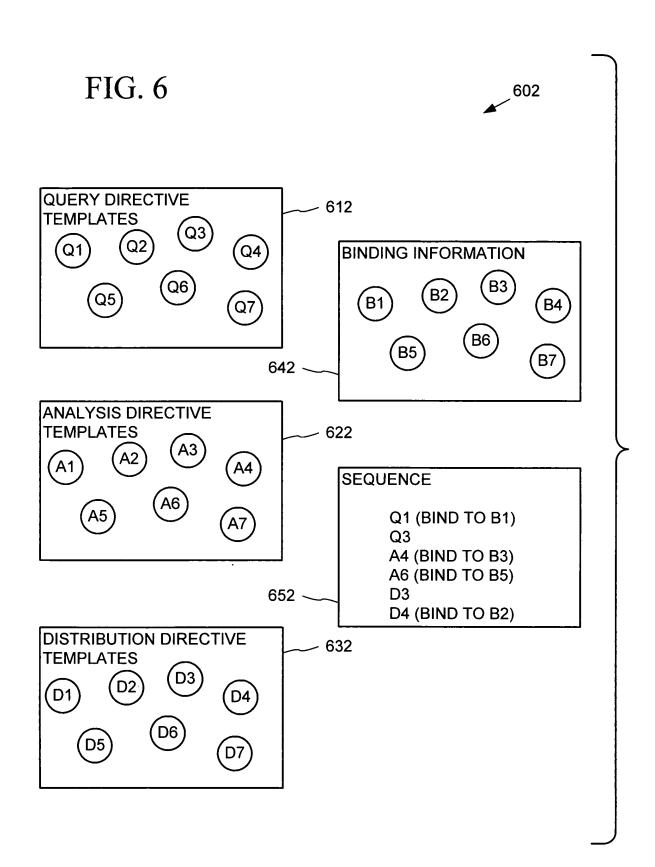


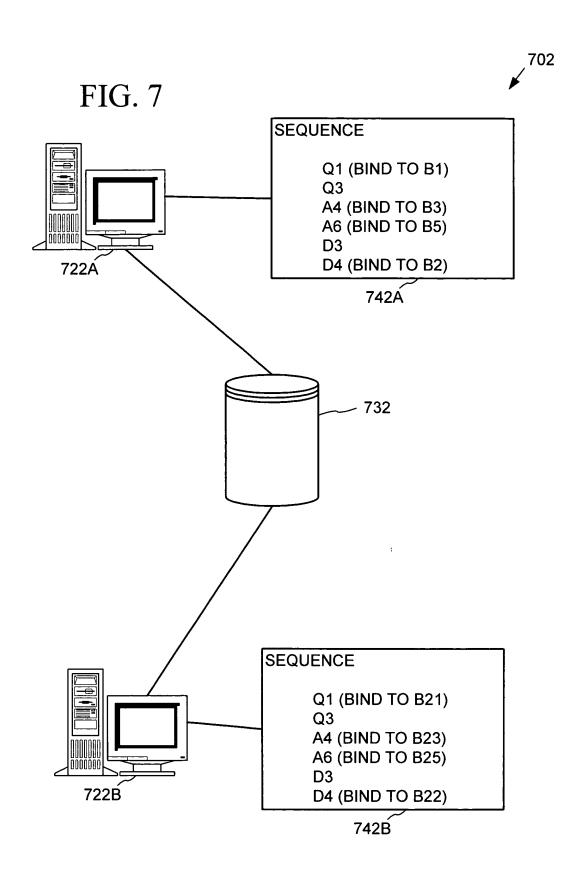




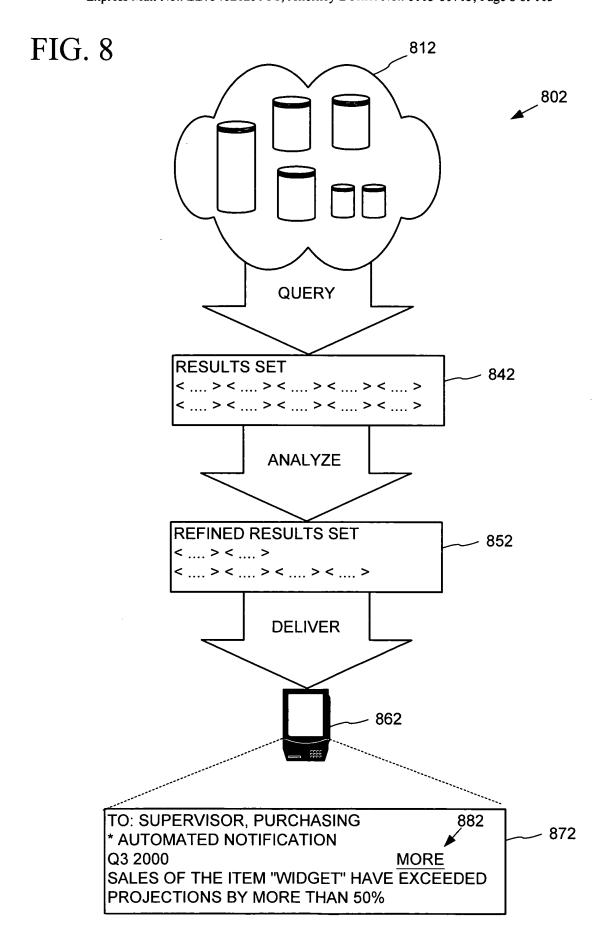


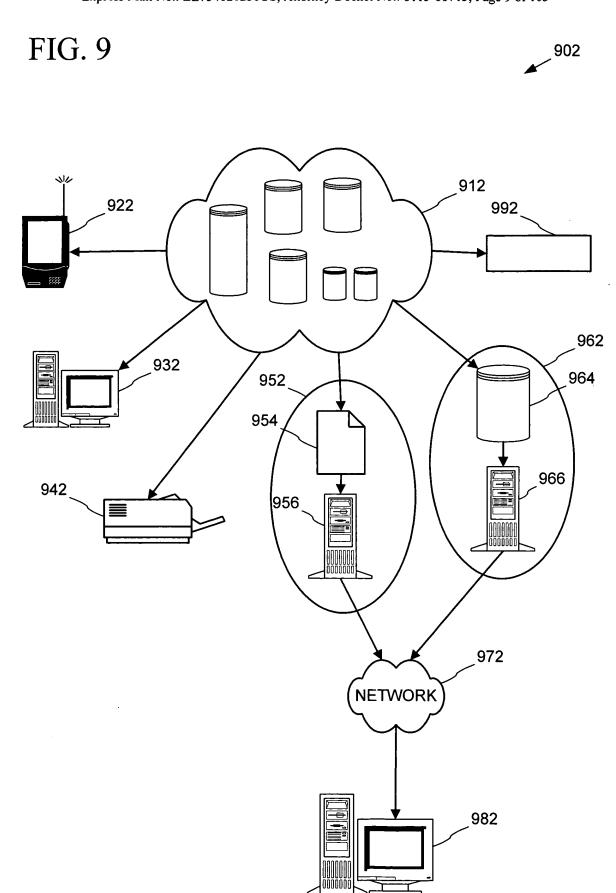






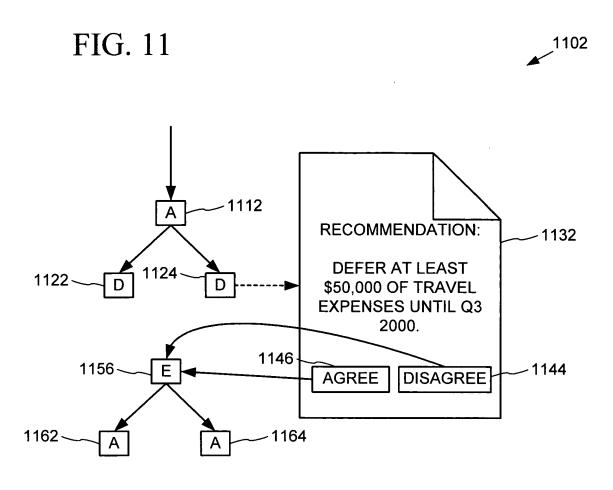


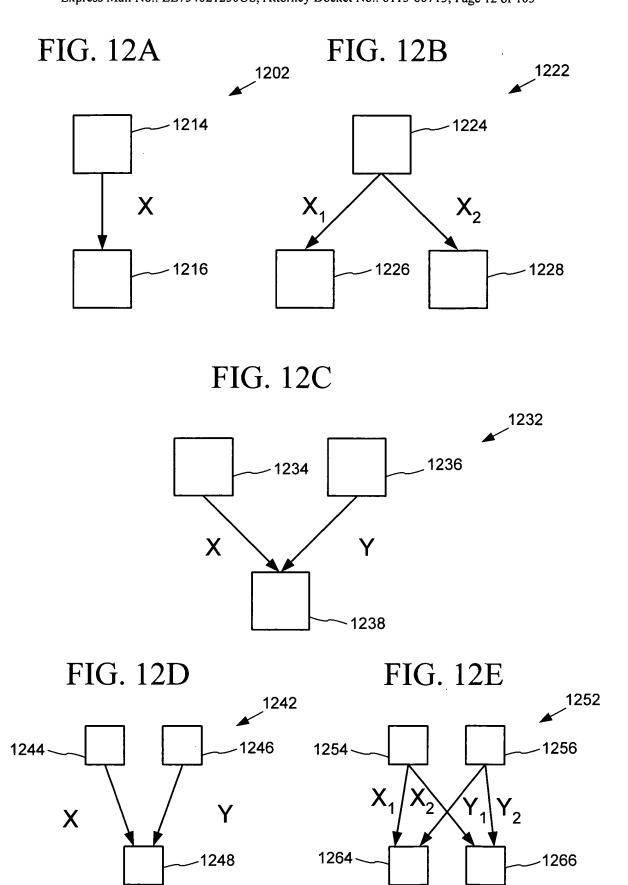




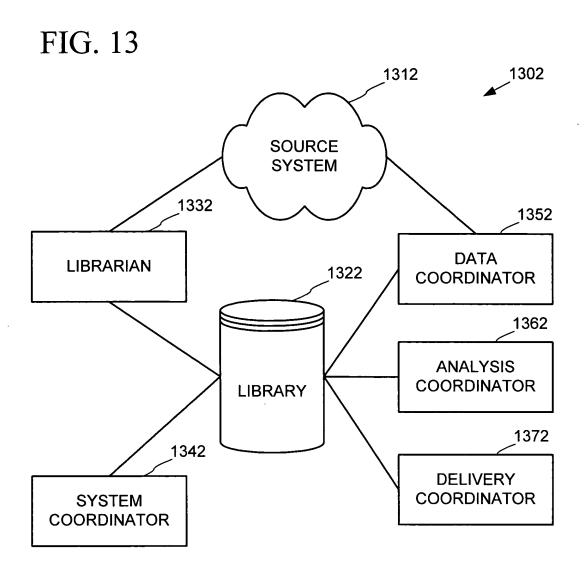
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FIG. 10 1002 1022 **QUERY** OSSIOS CENSUA 1032 1052 **REFINE ANALYZE** 1042 **DELIVER** 



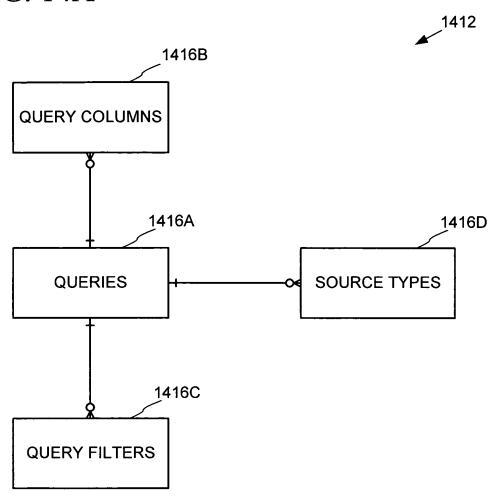


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FIG. 14A



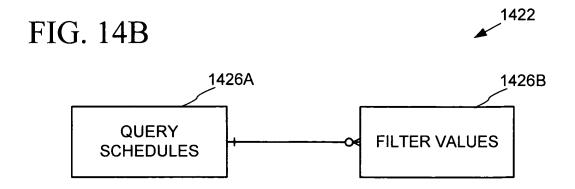
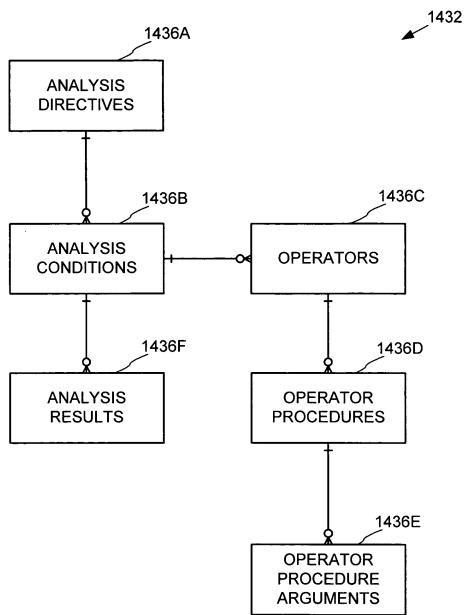


FIG. 14C



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FIG. 14D

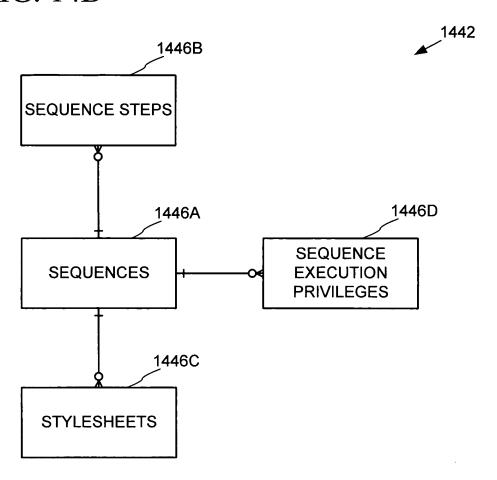
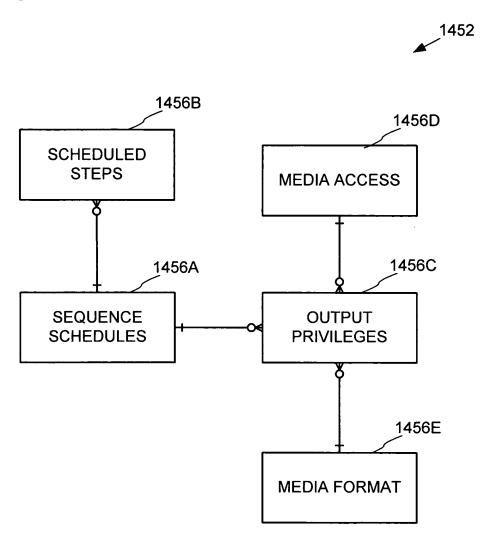
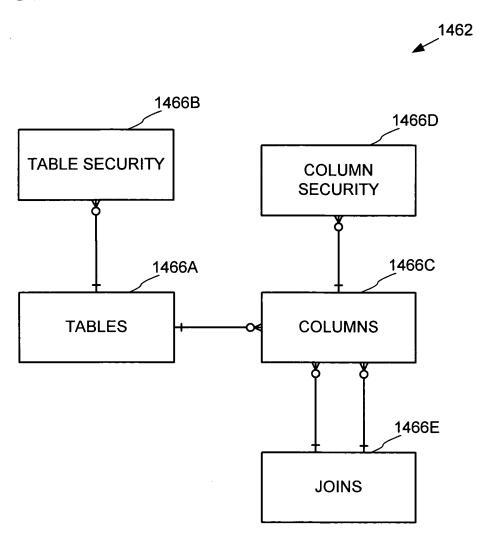


FIG. 14E

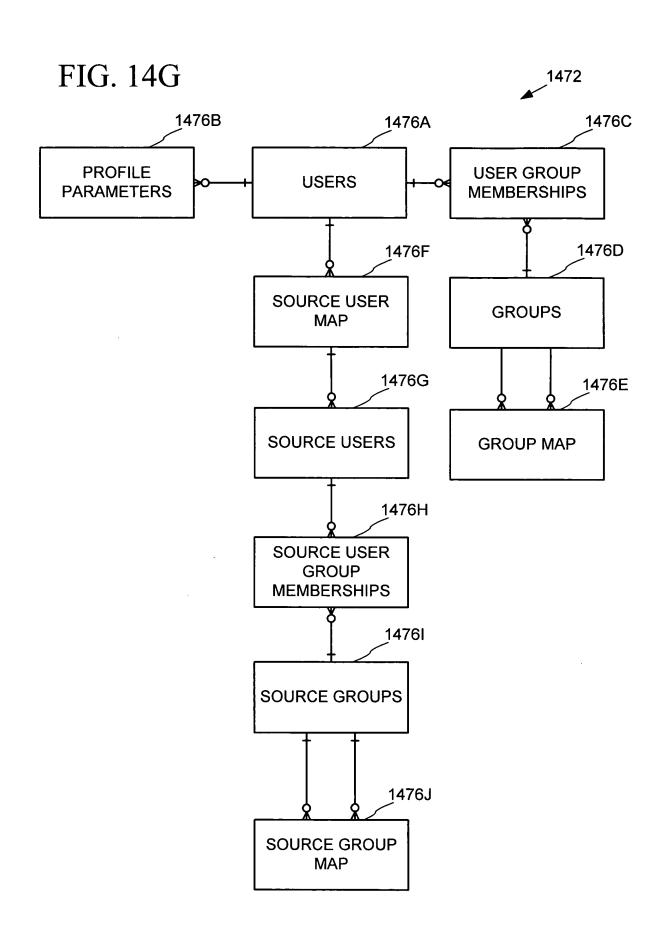


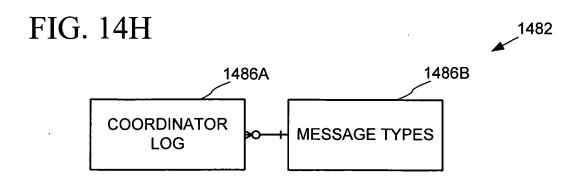
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FIG. 14F



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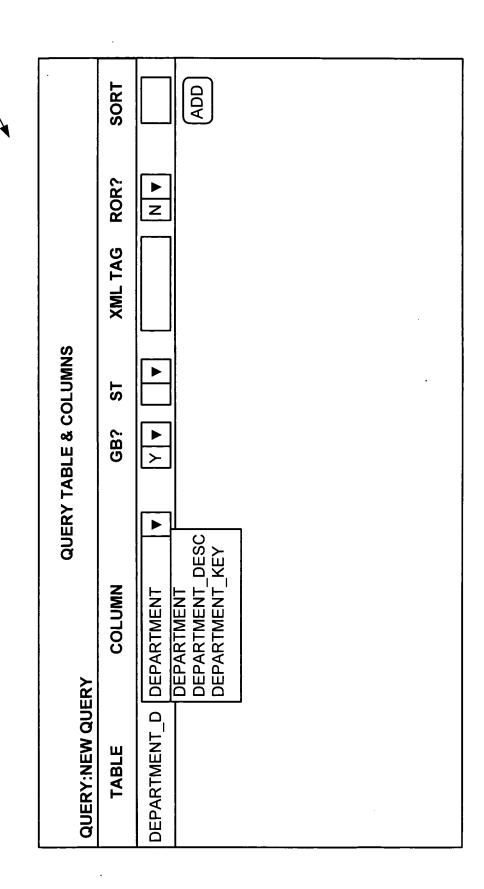
	ď	QUERY DIRECTIVES	IVES		
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CC1	COST CENTER	SYSTEM A	H	AVAILABLE	MOD
AR-PTD	PERIOD TO DATE SYSTEM B	SYSTEM B	ST	AVAILABLE	MOD
REV	PTD REVENUE	SYSTEM B	rs	AVAILABLE	MOD
FIN	FINANCIALS	SYSTEM B	ST	AVAILABLE	MOD
SALES	SALES BY DEPT SYSTEM B	SYSTEM B	ST	AVAILABLE •	MOD

Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 21 of 103 EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING

		QUERY TABLE & COLUMNS	E & COLUI	ANS		
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AR_RECFI_SIAIUS_D AR_REVENUE F	ГТ					
AR_SCH_PMT_DTL_F	т-					
AR SOLD TO CUST D						
ASSET_BOOK_D						
ASSET_EMPLOYEE_D		•				
ASSET_TYPE D						
AUTHORIZER_D •						
	1					

Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 22 of 103 EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING

FIG. 15C



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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12104, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12104, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12104, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12104, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12104, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12104, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12104, (503) 226-7391, Inventors: Systems Andrew 12104, (503) 226-7391, Inventors: Systems Andrew

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Systems Andrew 12204, (503) 226-7391, Inventors: Systems Andrew

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SORT

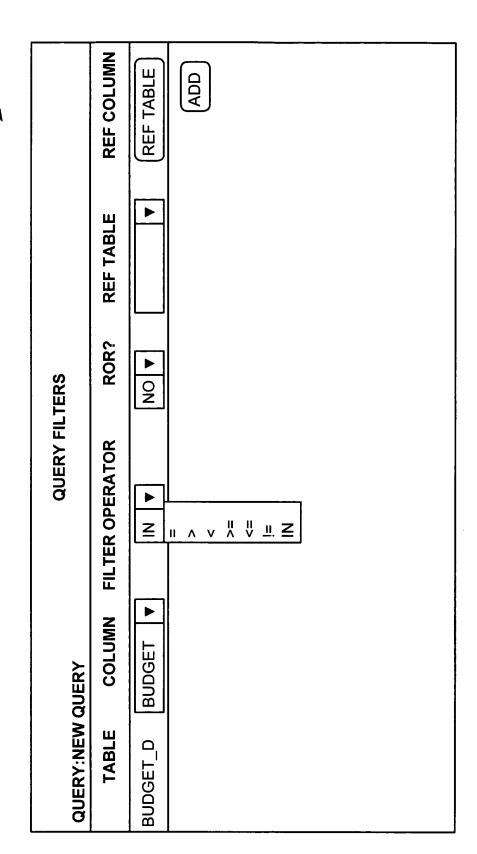
FIG. 15E

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INCOME_STMT_A	PTD_ACTUAL	z	SUM	PTD_ACTUAL	z	
INCOME_STMT_A	PTD_BUDGET	z	SUM	PTD_BUDGET	z	
INCOME_STMT_A	PTD_VARIANCE	z	SUM	PTD_VARIANCE N	z	
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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 25 of 103

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: SCHEURICH 1203, Inventors: SC

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		QUERY FILTERS	TERS		
QUERY:NEW QUERY	IERY				
TABLE	COLUMN	FILTER OPERATOR	ROR?	REF TABLE	REF COLUMN
BUDGET_D	BUDGET	Z	z		
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		ADD FILTER FINISH			

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O9925103.080901

ADD OPT. OPERATOR NOOP **ANALYSIS SUBSEQUENCE** ADDITIONS COMPLETED TOF XML **T0T** XML TAG NAME NAME: INCOME STATMT ANALYSIS DEPARTMENT CON'DN SEQ. COND'N TYPE AND

Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 29 of 103 EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon

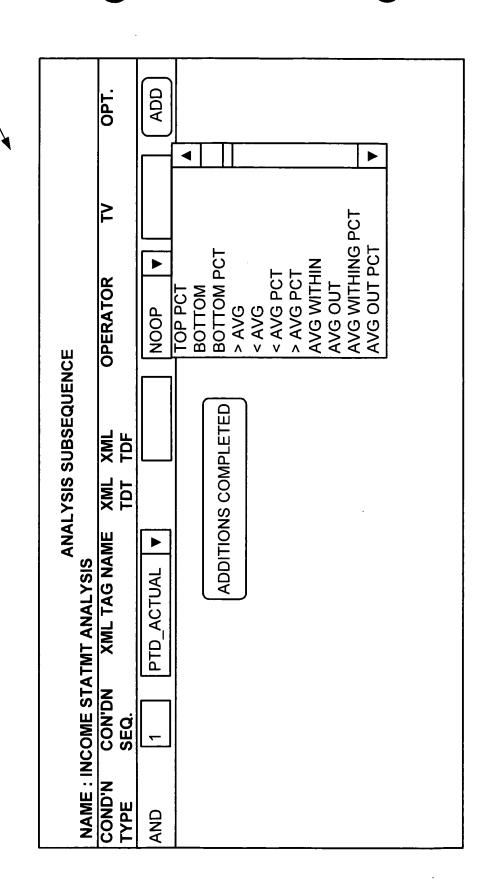
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ADD OPT. **OPERATOR** NOOP **ANALYSIS SUBSEQUENCE** ONS COMPLETED XML TDF X TOT XML TAG NAME LINE\_NAME PTD\_ACTUAL PTD\_BUDGET PTD\_VARIANCE NAME: INCOME STATMT ANALYSIS DEPARTMENT **DEPARTMEN** CON'DN SEQ. COND'N TYPE AND

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Systems And Systems 12204, (503) 226-7391, Inventors: Systems 12204,

FIG. 15K



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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1200, Portland, Oregon 1200, Portl

NAME: INCOME STATMT	COMES	ANALYSIS	ANA	LYSIS (	ANALYSIS SUBSEQUENCE	ENCE				
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## FIG. 15M

ADD,	ADD, EDIT OR DELETE SEQUENCES	SEQUENCES				
Ω	NAME	DESCRIPTION	STATUS USER OPT	S	USER	OPT
	INCOME STAT'T ANALYSIS	INCOME STAT'T ANALYSIS	AVAIL	<b>•</b>	NB (	ADD
24	FINANCIAL STATEMENT	FINANCIAL STATEMENT	AVAIL	<b>•</b>	rs	MOD
25	FSV	FSV	AVAIL	<b>•</b>	RB	MOD
56	COST CENTER SCORING 1	COST CENTER SCORING	DISAB ▼		LS	MOD
27	COST CENTER SCORING 2	CSS PTD-VARIANCE	AVAIL   TS MOD	<b>&gt;</b>	rs	МОР

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EQ		SEQUENCE NAME: INCOME STATEMENT ANALYSIS	COME STATEMENT ANALYSIS
<b>⊆</b>	STEP DIRI	ECTIVE TYPE	DIRECTIVE ID LUB
78	1 QUE	QUERY DIRECTIVE	QUERY FOR STEP • DEFINE
			AR - PTD REVENUE BY DEPARTMENT ►  VARIANCE AND VARIANCE PERCENT  NEW OLIERY
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SEC	SEQUENCE NAM	E: IN	ADD OR EDIT SEQUENCE STEP INFORMATION COME STATEMENT ANALYSIS	INFORMATION	
<u>□</u>	STEP DIR	DIRECTIVE TYPE	DIRECTIVE ID	TUB LUD	
28	_	QUERY DIRECTIVE	NEW QUERY  ▼	12/15/00	MOD DEFINE
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		T QUERY DIRECTIVE ANALYSIS DIRECTIVE EVENT DIRECTIVE DISTRIBUTION DIRECTIVE	E A		
			2		

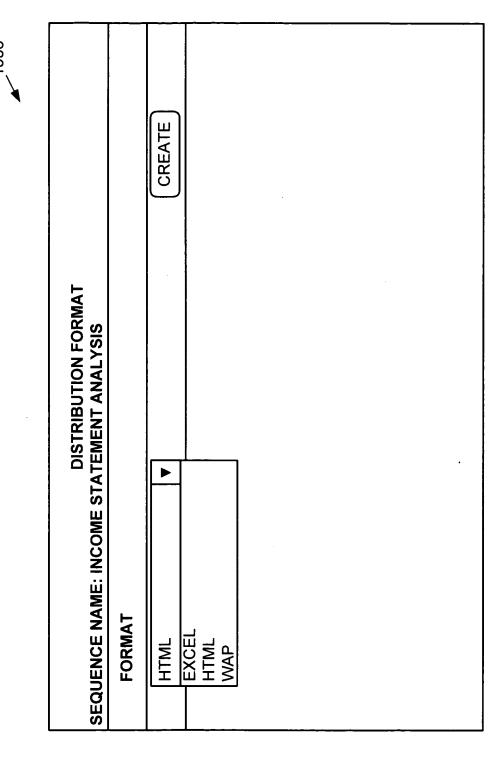
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PAPER SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 35 of 103

FIG. 15P

SEQUE	SEQUENCE NAME: IP	ADD OR E	ADD OR EDIT SEQUENCE STEP INFORMATION WE: INCOME STATEMENT ANALYSIS	CE STEP INFO	ORMATION		
ID ST	ST DIRECTIVE TYPE		DIRECTIVE ID	าา	רחש רחם		
28 1 0	28 1 QUERY DIR	NEW QUERY	-RY	<b>▶</b>	12/15/00	MOD	DEFINE
28 2 4	28 2 ANALYSIS DIR	INCOME	INCOME STMT ANALYSIS	IS ▼ NB	3 12/15/00	(MOD)	DEFINE
28 3	DISTRIBUTION DIRECTIVE	N DIRECTIV		DIRECTIVE			

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING P7204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 36 of 103

FIG. 15Q



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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION,

	FREQ PRIORITY	IMMEDIATE ▼ ADD		<b>S</b>	
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HOME	SEQUENCES SI AVAILABLE	ADMIN	SYS SETTINGS S USERS	LOGS APPL SETTINGS	MEDIA SETT'S

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 12204, (503) 226-7391, Inventors: Scheurich et al., Title: System 12204, (503) 226-7391, Inventors: Scheurich et al., Title: System 12204, (503) 226-7391, Inventors: Scheurich et al., Title: System 12204, (503) 226-7391, Inventors: Scheurich et al., Title: System 12204, (503) 226-7391, Inventors: Scheurich et al., Title: System 12204, (503) 226-7391, Inventors: Scheurich et al., Title: System 12204, (503) 226-7391, Inventors: Scheurich et al., Title: System 12204, (503) 226-7391, Inventors: Scheurich et al., Title: System 12204, (503) 226-7391, Inventors: Scheurich et al., Title: System 12204, (503) 226-7391, Inventors: Scheurich et al., Title: System 12204, (503) 226-7391, Inventors: System 12204, (503)

SCHEDULE SEQUENCES		
SEQUENCE NAME USER SCHEDULE DESC	FREQ	PRIORITY
INCOME STAT'T ANALYSIS  ▼ LS ISA FOR DEC '00	IMMEDIATE ▼	ADD
SELECT SEQUENCE TO VIEW	IMMEDIATE	
COST CENTER SCORING - PTD VARIANCE ▼	EXTRACT DAILY	
	WEEKLY MONTHLY	
_		

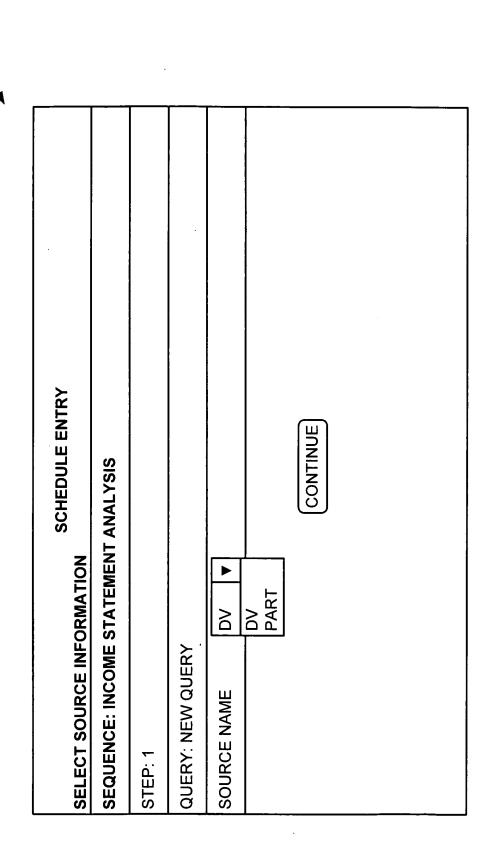
Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 39 of 103 EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING

## 'IG. 15T

ADD SEQUENCE TO SCHEDULE SELECT THE DAYS YOU WISH THE SEQUENCE TO RUN
□SUNDAY □ MONDAY □ TUESDAY □ WED □ THURS □ FRIDAY □ SATURDAY
START AT
8 ▼ : 30 ▼ PM ▼
NEXT START DATE
2000 ▼ DEC ▼ 15 ▼
SUBMIT

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: SCHEURICH 97204, (503) 226-7391, Inventors: SCHEURICH

<sup>7</sup>IG. 15V

SCHEDU SELECT SOURCE INFORMATION	SCHEDULE ENTRY
SEQUENCE: INCOME STATEMENT ANALYSIS	S
STEP: 1	
QUERY: NEW QUERY	
SOURCE NAME PART	
SOURCE SET OAS ▼	
CON	CONTINUE

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# G. 15W

SEQUENCE: INCOME S SCHEDULE: INCOME S SEQUENCE STEP: 1 NEW QUERY	FILTER VALUES NCOME STATEMENT ANALYSIS NCOME STATEMENT ANALYSIS TEP: 1	LUES YSIS	FILTER VALUES FOR QUERY NCOME STATEMENT ANALYSIS NCOME STATEMENT ANALYSIS FOR DECEMBER 2000 TEP: 1	
TABLE NAME	COL NAME	OP	FILTER VALUE	
BUDGET_D	BUDGET	롣	ACTUAL ▼ MOD	
			CORPORATE 1997 ▼ MOD	) DEL
			ADD	
PERIOD_D	PERIOD	Ħ	DEC-2000 ▼	
IF YOU HAVE MA MOD, O	DE CHANGES AND NOT IR DEL BUTTONS, THEY FINISHED	NOT S THEY V	IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD, MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED  FINISHED	Ď,

FIG. 15X

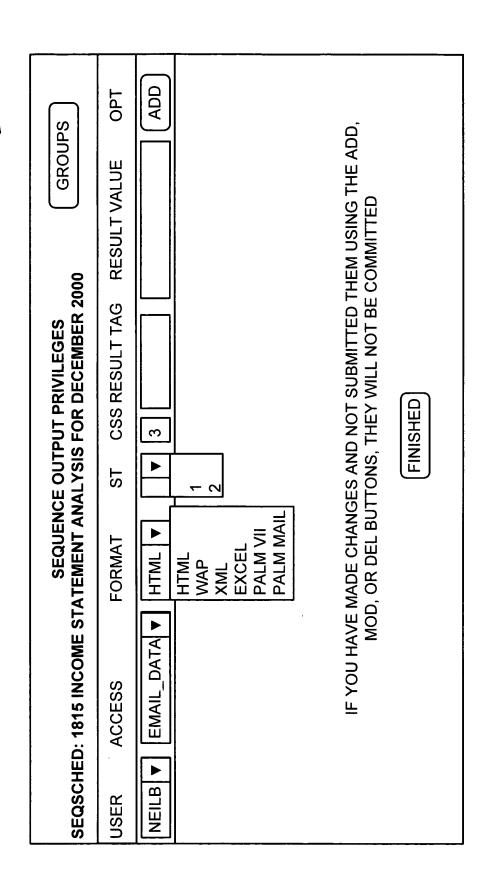
SEQSCHE	SEQUENCE OUTPUT PRIVILEGES SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000	SEQUENCE OUTPUT PRIVILEGES ATEMENT ANALYSIS FOR DECEMBER	OUTP	UT PE FOR C	RIVILEGES	2000	GROUPS	PS
USER	ACCESS	FORMAT	ST	CS RI	CS RESULT TAG		RESULT VALUE	OPT
NEILB ▼	EMAIL_DATA ▼	HTML •	•					ADD
NEILB LARRYS ERICH MARC SALES MARKET HQ	IF YOU HAVE	IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD, MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED  FINISHED  GENERALD  GENERALD  FINISHED	ES AND FONS, 1	AND NOT (NS, THEY NET)	SUBMITTEI WILL NOT [	S THEM US	SING THE AD	, OD,

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXPECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 44 of 103

FIG. 15Y

SEQSCHED	SEQUENCE OUTPUT PRIVILEGES SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000	SEQUENC ATEMENT AN	E OUTF ALYSIS	FOR	SEQUENCE OUTPUT PRIVILEGES MENT ANALYSIS FOR DECEMBER	2000	GROUPS	Si
USER	ACCESS	FORMAT	ST	CS F	CS RESULT TAG	RESULT VALUE	VALUE	OPT
NEILB ▼	EMAIL_DATA ▼	HTML	<b>•</b>					(ADD)
	EMAIL_DATA EMAIL_URL WEB DESK_ALERT							
	IF YOU HAVE MOE	IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD, MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED  [FINISHED]	ES ANE TONS, T	AND NOT 8 NS, THEY 1	F SUBMITTEE WILL NOT B	THEM USI	NG THE ADI	O .

FIG. 15Z



Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 46 of 103

PTD_VARIANCE	SELECT DESIRED 1AG NO RESULT TAG NEEDED DEPARTMENT LINE_NAME PTD_ACTUAL	SUBSEQUENCE 2 ▼ SELECT DESIRED TAG ▼	CONDITION SUBSEQUENCE RESULT TAG RESULT VALUES	SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000
--------------	---	--------------------------------------	--	--

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### FIG. 15BB

SEQUENCE OUTPUT PRIVILEGES  SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000  SELECT  SELECT	
FINISHED	

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXPECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 48 of 103

INCE OUTPUT PRIVILEGES ANALYSIS FOR DECEMBER 2000	SULT TAG RESULT VALUES	AENT   ▼   XML VERSION = "1.0"?   A   <split values="">   &lt;   SPLIT VALUES&gt;   &lt;   SPLIT VALUES&gt;      SPLIT VALUES&gt;  </split>	FINISHED
SEQUENCE OUTPUT PRIVILEGES SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000	CONDITION SUBSEQUENCE RESULT TAG RE	SUBSEQUENCE 2 ▼ DEPARTMENT ▼ SYML VER SPLIT VAL SVAL>COM SVAL>COM SVAL>EASI SVAL>FINA SVAL>FINA SVAL>PROI SVALS	FINISHED

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### IG. 15DD

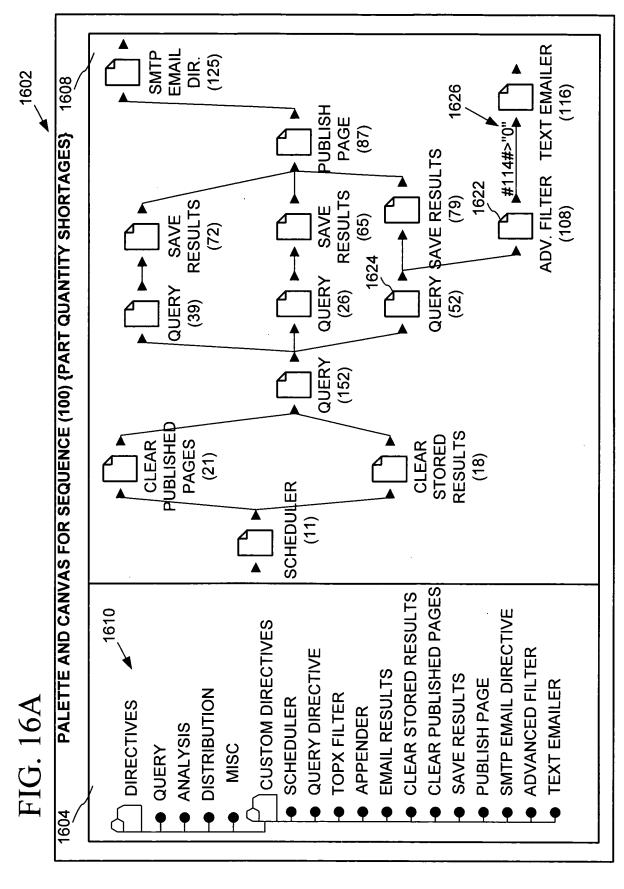
SEQSCHED	SEQUENCE OUTPUT PRIVILEGES SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000	SEQUENC	E OUTI	OUT P FOR	SEQUENCE OUTPUT PRIVILEGES MENT ANALYSIS FOR DECEMBER	2000		GROUPS	S
USER	ACCESS	FORMAT	ST	css	CSS RESULT TAG		RESULT VALUE	JU.	OPT
NEILB ◀	EMAIL_DATA ▼	HTML •	<b>•</b>	3					ADD
NEILB	EMAIL_DATA ▼	HTML •	2 4	2	DEPARTME		XML VERSION =</td <td>= NC</td> <td>MOD</td>	= NC	MOD
	IF YOU HAVE	IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD, MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED  FINISHED	SES ANG TONS,	AND NOT NS, THEY	SUBMITTEE WILL NOT E	D THEM SE CON	USING TI	HE ADI	Ó

SEQUENCE NAME  TEST SEQUENCE FOR PRIV ▼ LS  TEST SEQUENCE TO VIEW  TEST SEQUENCE FOR PRIVS AND STEPS TEST SEQUENCE FOR PRIVS AND STEPS COST CENTER SCORING - PTD COST CENTER SCORING - PTD VARIANCE TEST VOAGE AR - PTD REVUENUE BY DEPARTMENT SOCCER SCORES BUDGET VARIANCE SCORING INCOME STATEMENT ANALYSIS	SCHEDULE SEQUENCES
TEST SEQUENCE FOR PRIM ▼ LS  SELECT SEQUENCE TO VIEW  TEST SEQUENCE FOR PRIVS AND STEPS  TEST SEQUENCE FOR PRIVS AND STEPS COST CENTER SCORING - PTD VARIANCE TEST VOAGE AR - PTD REVUENUE BY DEPARTMENT SOCCER SCORES BUDGET VARIANCE SCORING INCOME STATEMENT ANALYSIS	SCHEDULE DESC FREQ PRIORITY
SELECT SEQUENCE TO VIEW  TEST SEQUENCE FOR PRIVS AND STEPS TEST SEQUENCE FOR PRIVS AND STEPS COST CENTER SCORING - PTD COST CENTER SCORING - PTD VARIANCE TEST VOAGE AR - PTD REVUENUE BY DEPARTMENT SOCCER SCORES BUDGET VARIANCE SCORING INCOME STATEMENT ANALYSIS	IMMEDIATE   ▼
TEST SEQUENCE FOR PRIVS AND STEPS  TEST SEQUENCE FOR PRIVS AND STEPS COST CENTER SCORING - PTD COST CENTER SCORING - PTD COST CENTER SCORING - PTD VARIANCE TEST VOAGE AR - PTD REVUENUE BY DEPARTMENT SOCCER SCORES BUDGET VARIANCE SCORING INCOME STATEMENT ANALYSIS	
TEST SEQUENCE FOR PRIVS AND STEPS COST CENTER SCORING - PTD COST CENTER SCORING - PTD VARIANCE TEST VOAGE AR - PTD REVUENUE BY DEPARTMENT SOCCER SCORES BUDGET VARIANCE SCORING INCOME STATEMENT ANALYSIS	PS ▼ (VIEW)
	PS CE

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SCH	SCHEDULE SEQUENCES	ACES		
SEQUENCE NAME	USER SCHEDULE DESC	LE DESC	FREQ	PRIORITY
TEST SEQUENCE FOR PRIV ▼	l S	IMI	IMMEDIATE ▼	ADD
SELECT SEQUENCE TO VIEW				
TEST SEQUENCE FOR PRIVS AND STEPS	STEPS ▼	\ <u>\</u>	VIEW	
SEQUENCE: INCOME STATEMENT ANALYSIS USER: NB	VALYSIS USER:	NB		
ID DESCRIPTION	STATUS	FREQ	START	OPTIONS
1815 INCOME STAT'T ANALYSIS DEC 2001 SCHED	2001 SCHED	DAILY	23-APR-2001 08:30 PM	-2001 MOD M DEL PRIVILEGES
	ē			

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXPERS Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 53 of 103

### FIG. 16B

SEQUENCE PROPERTIES	RTIES		×
SEQUENCE NAME: DESCRIPTION: NOTES:		PART QUANTITY SHORTAGES FINDS PART QUANTITY SHORTAGES SAVE THIS ONE	
SEQUENCE AUTHOR SEQUENCE STATUS:	••	AUTHOR1 STATUS1 ADD VARIABLE	
GLOBAL VARIABLES:	BLES:		
CAPTION: VALUE:	CONNECT JDBC:OR/	CONNECT STRING JDBC:ORACLE.THIN@123.245.23.1:1521:CONNECT30	<del></del>
CAPTION: VALUE:	DATABAS RRIC1234	DATABASE USER NAME NAME: USER_NAME RRIC1234	<del></del>
CAPTION: VALUE:	DATABAS SEQUENC	DATABASE PASSWORD NAME: USER_PWD SEQUENCE	<del></del>
CAPTION: VALUE:	OWNERNAME QRY_ANALYSIS	AME NAME: OWNERNAME	<del></del>
CAPTION: VALUE:	CURRENT PERIOD (1997-09) SEP-97	PERIOD NAME: CURPERIOD SEP-97	

ID: 108 DIRECTIVE NAME: (ADFILTER) ADVANCED FILTER CANCE PARAM NAME (FILTER\_EXP) FILTER EXPRESSION INPUT INPUT #REQUIRED\_QUANTITY# >200 DB3(52) RESULT DATA INPUT Š DIRECTIVE PROPERTIES ACTIVITY

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1660

X

X

78260 178828 390000 3510 SUM4 -244800 240000 -43092 48750 -1440 4800 **COST CENTER ANALYSIS** 244800 1440 4800 Ш 48750 e 2 ← **CLEANING AND MAIN ACCOMMODATION** ACCOUNT DESC **ADVERTISING CAR RENTAL BAD DEBT AIRFARE** ⋖ BROWSER

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PROPERTY.

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FIG. 18

</DF\_DIRECTIVE\_DEFINITION>

\_1801

<DF DIRECTIVE DEFINITION DIRECTIVE ID="DB2" DIRECTIVE NAME="DATA DIRECTIVE"</p> THREADING EFFECT="SPLIT" DIRECTIVE DESC="SQL DATADIRECTIVE THAT SPLITS RESULTS ON GIVEN COLUMN" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070"/> <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SQL"</p> PARAM DATA TYPE="STRING" PARAM NAME="SQL"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="COLUMN TO SPLIT"</p> PARAM DATA TYPE="STRING" PARAM NAME="SPLIT COLUMN"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="CONNECTION STRING"</p> **PARAM DATA TYPE="STRING" PARAM NAME="CONNECTION STRING"/>** <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE USER NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="USERNAME"/> <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="DATABASE PASSWORD" PARAM DATA TYPE="STRING" PARAM NAME="PWD"/> </IN PARAMETERS> **<OUT PARAMETERS>** <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET"/> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT METADATA" PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA"/> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="SPLIT VALUE"</p> PARAM DATA TYPE="STRING" PARAM NAME="SPLITVALUE"/> </OUT PARAMETERS>

### FIG. 19A

1901

- <DF DIRECTIVE DEFINITION LIST> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="SB1" DIRECTIVE NAME="SCHEDULER" DIRECTIVE CATEGORY="DPA-MISC" THREADING EFFECT="SPLIT" DIRECTIVE DESC="SCHEDULE DIRECTIVE" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1"> - <!-- CAN ADD A TYPE OR ICON NAME - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="FREQUENCY"</p> PARAM DATA TYPE="STRING" PARAM NAME="FREQUENCY" /> </IN PARAMETERS> <OUT PARAMETERS /> DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4" PORT="9070" /> 术/DF\_DIRECTIVE\_DEFINITION> FINDER DIRECTIVE DEFINITION DIRECTIVE ID="DB2" DIRECTIVE NAME="DATA DIRECTIVE" THREADING EFFECT="SPLIT" DIRECTIVE DESC="SQL DATADIRECTIVE THAT SPLITS RESULTS ON GIVEN COLUMN" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <u>"</u>≼DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4" PORT="9070" / FIN\_PARAMETERS> SPARAMETER PARAM TYPE="IN" PARAM CAPTION="SQL" PARAM DATA TYPE="STRING" PARAM NAME="SQL" /> ★PARAMETER PARAM TYPE="IN" PARAM CAPTION="COLUMN TO SPLIT" PARAM DATA TYPE="STRING" PARAM NAME="SPLIT COLUMN" /> <PARAMETER PARAM\_TYPE="IN" PARAM CAPTION="CONNECTION STRING"</p> PARAM DATA TYPE="STRING" PARAM NAME="CONNECTION STRING" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE USER NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="USERNAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE PASSWORD" PARAM DATA TYPE="STRING" PARAM NAME="PWD" /> </IN PARAMETERS>

### FIG. 19B

\_\_1902

- <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT METADATA" PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="SPLIT VALUE"</p> PARAM DATA TYPE="STRING" PARAM NAME="SPLITVALUE" /> </OUT PARAMETERS> </DF DIRECTIVE DEFINITION> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="AB1" DIRECTIVE NAME="TOPX FILTER"</li> THREADING EFFECT="STANDARD" DIRECTIVE DESC="FILTER OUT TOP X ROWS FROM RESULTSET" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> -<mark></mark>₹IN\_PARAMETERS> 示PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULT SET METADATA" PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" /> ►<PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET"</p> PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" /> PARAMETER PARAM TYPE="IN" PARAM\_CAPTION="COLUMN POSITION FOR TOPX" PARAM DATA TYPE="STRING" PARAM NAME="TOPX COLUMN" /> -</IN\_PARAMETERS> **SOUT PARAMETERS>** PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" /> PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT METADATA" PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" /> </OUT PARAMETERS> </DF DIRECTIVE DEFINITION> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="AB2" DIRECTIVE NAME="APPENDER" DIRECTIVE TYPE=""THREADING EFFECT="JOIN" DIRECTIVE DESC="REJOIN SPLIT RESULTSETS" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4" PORT="9070" /</p> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET METADATA" PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" /> </IN PARAMETERS>

### FIG. 19C

```
- <OUT PARAMETERS>
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" />
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT METADATA"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" />
 </OUT PARAMETERS>
 </DF DIRECTIVE DEFINITION>
- <DF DIRECTIVE DEFINITION DIRECTIVE ID="MB1" DIRECTIVE NAME="EMAIL RESULTS"
THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="SIMPLE
EMAIL DIRECTIVE" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1"
DIRECTIVE CATEGORY="DPA-MISC">
 <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4" PORT="9070" /</p>
-IN PARAMETERS>
※■PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL ADDRESS LIST"
PARAM DATA TYPE="STRING" PARAM NAME="MAILADR" />
SPARAMETER PARAM TYPE="IN" PARAM CAPTION="SUBJECT LINE"
PÄRAM DATA TYPE="STRING" PARAM NAME="SUBJECT" />

☆PARAMETER PARAM TYPE="IN" PARAM CAPTION="MESSAGE DATA"

PARAM_DATA_TYPE="STRING" PARAM_NAME="MESSAGE" />
=</IN PARAMETERS>
GOUT PARAMETERS />

☑/DF DIRECTIVE DEFINITION>

- DF DIRECTIVE DEFINITION DIRECTIVE ID="CRB1" DIRECTIVE NAME="CLEAR STORED"
RESULTS" THREADING EFFECT="STANDARD" DIRECTIVE TYPE=""
DTRECTIVE DESC="REMOVE PREVIOUS RESULT SETS FROM REPOSITORY"
DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-
MISC">
 <DEPLOYMENT SERVICE="DPA DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" /</p>
- <IN PARAMETERS>
<PARAMETER PARAM TYPE="IN" PARAM CAPTION="OWNER ID"</p>
PARAM DATA TYPE="STRING" PARAM NAME="OWNERID" />
<PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTNAME"</p>
PARAM DATA TYPE="STRING" PARAM NAME="RESULTNAME" />
</IN PARAMETERS>
<OUT PARAMETERS />
</DF DIRECTIVE DEFINITION>
```

### FIG. 19D

1904

- <DF DIRECTIVE DEFINITION DIRECTIVE ID="CRC1" DIRECTIVE NAME="CLEAR PUBLISHED PAGES" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="REMOVE PREVIOUS PUBLISHED PAGES FROM REPOSITORY" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4" PORT="9070" /</p> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="OWNERID" PARAM DATA TYPE="STRING" PARAM NAME="OWNERID" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" /> **IN PARAMETERS> ©OUT PARAMETERS />** M/DF DIRECTIVE DEFINITION> \_UDF DIRECTIVE\_DEFINITION DIRECTIVE\_ID="SR1" DIRECTIVE\_NAME="SAVE RESULTS" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="SAVES RESULTS TO REPOSITORY" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DÎRECTIVE CATEGORY="DPA-MISC"> ☑DEPLOYMENT SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4" PORT="9070" / Z **IN PARAMETERS>** PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET OWNER" PARAM DATA TYPE="STRING" PARAM NAME="OWNER" /> PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET METADATA"</p> PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET NAME" PARAM DATA TYPE="STRING" PARAM NAME="RESULTNAME" /> </IN PARAMETERS> - <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULTSET ID" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSETID" /> </OUT PARAMETERS> </DF\_DIRECTIVE\_DEFINITION>

FIG. 19E

1905

 - <DF DIRECTIVE DEFINITION DIRECTIVE ID="CR2" DIRECTIVE NAME="PUBLISH PAGE"</li> THREADING EFFECT="STANDARD" DIRECTIVE\_TYPE="" DIRECTIVE DESC="PUBLISHES" PAGE & GRANTS SECURITY" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4" PORT="9070" /</p> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="GRANT SECURITY LIST"</p> PARAM DATA TYPE="STRING" PARAM NAME="SECDOC" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="METADATA FOR SECDOC"</p> PARAM DATA TYPE="STRING" PARAM NAME="SECMETA" /> SPARAMETER PARAM TYPE="IN" PARAM CAPTION="GRANT SECURITY LIST" PARAM DATA TYPE="STRING" PARAM NAME="SECCOLNAME" /> ★PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE OWNER" PARAM DATA TYPE="STRING" PARAM NAME="OWNER" /> Reparameter Param Type="In" Param Caption="page Name" PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" /> ∜PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE SLICE NAME" PARAM DATA TYPE="STRING" PARAM NAME="PAGESLICENAME" /> FPARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="PAGE DEFINITION" PARAM DATA TYPE="STRING" PARAM NAME="PAGEDEFN" /> 《SPARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY" PARAM DATA TYPE="STRING" PARAM NAME="P1" /> ₹PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY" PARAM DATA TYPE="STRING" PARAM NAME="P2" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM NAME="P3" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY" PARAM DATA TYPE="STRING" PARAM NAME="P4" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM NAME="P5" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM NAME="P6" /> </IN PARAMETERS>

FIG. 19F

```
- <OUT PARAMETERS>
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE ID"</p>
PARAM DATA TYPE="STRING" PARAM NAME="PAGEID" />
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE OWNER"</p>
PARAM DATA TYPE="STRING" PARAM NAME="OWNER" />
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE NAME"
PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" />
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE SLICE NAME"</p>
PARAM DATA TYPE="STRING" PARAM NAME="PAGESLICENAME" />
 </OUT PARAMETERS>
 </DF DIRECTIVE DEFINITION>

    - <DF DIRECTIVE DEFINITION DIRECTIVE_ID="DB3" DIRECTIVE NAME="DATA DIRECTIVE"</li>

TEREADING EFFECT="STANDARD" DIRECTIVE DESC="RETRIEVE DATA AND ASSEMBLE
INTO RESULT SET" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1"
DIRECTIVE CATEGORY="DPA-MISC">
DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" /
- IN PARAMETERS>
SPARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SQL"
PARAM DATA TYPE="PARAMITERIZED SQL STRING" PARAM NAME="SQL" />
■PARAMETER PARAM TYPE="IN" PARAM CAPTION="CONNECTION STRING"
PÄRAM DATA TYPE="STRING" PARAM NAME="CONNECTION STRING" />
 ☆PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE USER NAME"
PARAM DATA TYPE="STRING" PARAM NAME="USERNAME" />
SPARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE PASSWORD"
PARAM DATA TYPE="STRING" PARAM NAME="PWD" />
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="P1" PARAM_DATA_TYPE="STRING"
PARAM NAME="P1" />
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="P2" PARAM DATA TYPE="STRING"
PARAM NAME="P2" />
 <PARAMETER PARAM TYPE="IN" PARAM_CAPTION="P3" PARAM_DATA_TYPE="STRING"
PARAM NAME="P3" />
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="P4" PARAM DATA TYPE="STRING"
PARAM NAME="P4" />
 <PARAMETER PARAM_TYPE="IN" PARAM CAPTION="P5" PARAM DATA TYPE="STRING"
PARAM NAME="P5" />
</IN PARAMETERS>
```

### FIG. 19G

1907

- <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT METADATA" PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" /> </OUT PARAMETERS> </DF DIRECTIVE DEFINITION> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="MB2" DIRECTIVE NAME="SMTP EMAIL</li> DIRECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="SEND PUBLISHED PAGES" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4" PORT="9070" /</p> **EXIN PARAMETERS>** PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL ADDRESSES" PARAM DATA TYPE="STRING" PARAM NAME="ADDRDOC" /> \*PARAMETER PARAM TYPE="IN" PARAM CAPTION="METADATA FOR ADDRDOC" PARAM DATA TYPE="STRING" PARAM NAME="ADDRMETA" /> ™PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL COLUMN NAME" BARAM DATA TYPE="STRING" PARAM NAME="ADDRCOLNAME" /> PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL COLUMN NAME" PARAM DATA TYPE="STRING" PARAM NAME="IDCOLNAME" /> PARAM DATA TYPE="STRING" PARAM NAME="SUBJECT" /> FPARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE OWNER" PARAM DATA TYPE="STRING" PARAM NAME="OWNER" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE INSTANCE" PARAM DATA TYPE="STRING" PARAM NAME="PAGEINST" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="MAIL FORMAT"</p> PARAM DATA TYPE="STRING" PARAM NAME="FORMAT" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SEND FROM MAIL ADDRESS"</p> PARAM DATA TYPE="STRING" PARAM NAME="SENDFROM" /> </IN PARAMETERS>

### FIG. 19H

```
- <OUT PARAMETERS>
<PARAMETER PARAM TYPE="OUT" PARAM CAPTION="ERROR MESSAGES"</p>
PARAM DATA TYPE="STRING" PARAM NAME="ERROR MSG" />
</OUT PARAMETERS>
</DF DIRECTIVE DEFINITION>
- <DF DIRECTIVE DEFINITION DIRECTIVE ID="ABFILTER" DIRECTIVE NAME="ADVANCED
FILTER" THREADING EFFECT="STANDARD" DIRECTIVE TYPE=""
DIRECTIVE DESC="FILTER RESULTS" DIRECTIVE VENDOR="DPA"
DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC">
<DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4" PORT="9070" /</p>
>
- <IN PARAMETERS>
►PARAMETER PARAM TYPE="IN" PARAM CAPTION="FILTER EXPRESSION"
PARAM DATA TYPE="STRING" PARAM NAME="FILTER EXP" />
♣PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS METADATA"
PARAM DATA TYPE="STRING" PARAM NAME="METADOC" />
 *PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTSDOC" />
IN PARAMETERS>
- < OUT PARAMETERS>
SPARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULTS METADATA"
PÄRAM DATA TYPE="STRING" PARAM NAME="METADOC" />
PARAMETER PARAM_TYPE="OUT" PARAM CAPTION="RESULTS"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTSDOC" />
 ₹PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="ROW.COUNT"
PARAM DATA TYPE="STRING" PARAM NAME="ROWCOUNT" />
</OUT PARAMETERS>
</DF DIRECTIVE DEFINITION>

    - <DF DIRECTIVE DEFINITION DIRECTIVE ID="TEXTEMAILER" DIRECTIVE NAME="TEXT</li>

EMAILER" THREADING EFFECT="STANDARD" DIRECTIVE TYPE=""
DIRECTIVE DESC="TEXT EMAILER" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1"
DIRECTIVE CATEGORY="DPA-MISC">
<DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4" PORT="9070" /</p>
```

FIG. 19I

```
- <IN PARAMETERS>
   <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SUBJECT EXPRESSION"</p>
PARAM DATA TYPE="STRING" PARAM NAME="SUBJECT EXP" />
   <PARAMETER PARAM TYPE="IN" PARAM CAPTION="MESSAGE EXPRESSION"</p>
PARAM DATA TYPE="STRING" PARAM NAME="MESSAGE EXP" />
   <PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL ADDRESSES"</p>
PARAM DATA TYPE="STRING" PARAM NAME="EMAIL ADDRESSES" />
   <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SEND FROM ADDRESS"</p>
PARAM DATA TYPE="STRING" PARAM NAME="FROM ADDRESS" />
   <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS METADATA"
PARAM DATA TYPE="STRING" PARAM NAME="METADOC" />

■ PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS"

RARAM DATA TYPE="STRING" PARAM NAME="RESULTSDOC" />
 - I∛OUT PARAMETERS>
 SPARAMETER PARAM TYPE="OUT" PARAM CAPTION="ERROR MESSAGES"
PARAM DATA TYPE="STRING" PARAM NAME="ERROR" />
 INJOUT PARAMETERS>
 </DF DIRECTIVE DEFINITION>
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### FIG. 20A

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- <RESULTS DOC>
- <DP QUERY DEF VERSION="1">
 <DPA IDENTIFIERS DATA SET="NW" WH OWNER NAME="RROC" />
 <HINTS />
- < COLUMN DEFS>
 <COLUMN DEF COLUMN SORT ATTRIBUTE="NONE"</p>
COLUMN TEXT="VENDOR NAME" TABLE ALIAS="VENDOR D"
COLUMN NAME="VENDOR NAME" COLUMN ALIAS="VENDOR NAME"
COLUMN SORT ORDER="1" COLUMN POSITION="1"
COLUMN TYPE="GROUP BY" />
 <COLUMN DEF COLUMN SORT ATTRIBUTE="NONE"</p>
COLUMN TEXT="PERIOD KEY" TABLE ALIAS="AP INV DETAIL F"
COLUMN NAME="PERIOD KEY" COLUMN ALIAS="PERIOD KEY"
COLUMN SORT ORDER="2" COLUMN POSITION="2"
COLUMN TYPE="GROUP BY" />
 <COLUMN DEF COLUMN SORT ATTRIBUTE="DESC"
COLUMN TEXT="SUM(AP INV DETAIL F.INVOICE LINE AMOUNT)"
TABLE ALIAS="AP INV DETAIL F"
COLUMN NAME="INVOICE LINE AMOUNT"
COLUMN ALIAS="SUM INVOICE LINE AMOUNT"
COLUMN SORT ORDER="3" COLUMN POSITION="3"
COLUMN TYPE="AGGREGATE" />
 </COLUMN DEFS>
- <TABLE DEFS>
 <TABLE DEF TABLE ALIAS="AP INV DETAIL F"
TABLE NAME="AP INV DETAIL F" />
 <TABLE DEF TABLE ALIAS="VENDOR D" TABLE NAME="VENDOR D" /
 </TABLE DEFS>
- <DETAIL FILTERS>
- <FILTER FILTER TYPE="VALUE" COLUMN TEXT="VENDOR TYPE"</li>
TABLE_ALIAS="VENDOR D" FILTER PREC OPER="AND"
FILTER OPERATOR="=">
 <FILTER VALUE VALUE DATA TYPE="STRING">EMPLOYEE
FILTER VALUE>
 </FILTER>
```

### FIG. 20B

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```
- <FILTER FILTER TYPE="VALUE" COLUMN TEXT="COMPANY KEY"
TABLE ALIAS="AP INV DETAIL F" FILTER PREC OPER="AND"
FILTER OPERATOR="=">
 <FILTER VALUE VALUE DATA TYPE="STRING">01</filter VALUE>
 </FILTER>
 </DETAIL FILTERS>
- <AGGREGATE FILTERS>
- <FILTER FILTER TYPE="VALUE"</p>
COLUMN TEXT="SUM(INVOICE_LINE_AMOUNT)"
TABLE ALIAS="AP INV DETAIL F" FILTER PREC OPER="AND"
FILTER_OPERATOR=">">
 <FILTER VALUE VALUE DATA TYPE="NUMBER">0</FILTER VALUE>
 </FILTER>
 </AGGREGATE FILTERS>
 </DP QUERY DEF>
 <DPA_QUERY_SERVER_INFO SERVICE="DPA_QUERY_SERVER"</pre>
MACHINE="EXH 2K" PORT="8069"
WAREHOUSE SERVER="HD.DPAPPLICATIONS.COM"
WAREHOUSE DBNAME="DEMO30"
WAREHOUSE OWNER="RROC">FOODADDY</
DPA QUERY SERVER INFO>
- < DP DS METADATA>
 <DP_COLUMN COLUMN_NAME="VENDOR NAME"</pre>
COLUMN DATA TYPE="VARCHAR2" COLUMN DS ALIAS="C1"
COLUMN TYPE="GROUP BY" COLUMN SORT ATTRIBUTE="NONE"
COLUMN SOURCE ALIAS="VENDOR NAME"
COLUMN LABEL="VENDOR NAME" COLUMN DESC=""
COLUMN IS CURRENCY="N" />
 <DP COLUMN COLUMN NAME="PERIOD KEY"</p>
COLUMN DATA TYPE="VARCHAR2" COLUMN DS ALIAS="C2"
COLUMN TYPE="GROUP BY" COLUMN SORT ATTRIBUTE="NONE"
COLUMN SOURCE ALIAS="PERIOD KEY" COLUMN LABEL="PERIOD
KEY" COLUMN DESC="" COLUMN IS CURRENCY="N" />
 <DP COLUMN COLUMN NAME="SUM INVOICE LINE AMOUNT"</p>
COLUMN DATA TYPE="NUMBER" COLUMN DS ALIAS="C3"
COLUMN TYPE="AGGREGATE" COLUMN SORT ATTRIBUTE="DESC"
COLUMN SOURCE ALIAS="SUM INVOICE LINE AMOUNT"
COLUMN LABEL="INVOICE LINE AMOUNT" COLUMN DESC=""
COLUMN IS CURRENCY="Y" />
```

2003

```
</DP DS METADATA>
- <DP DS>
- <R>
 <C1>JAMIE FROST</C1>
<C2>DEC-97</C2>
<C3>28159</C3>
</R>
- <R>
<C1>JAMIE FROST</C1>
 <C2>JAN-98</C2>
<C3>15114.76</C3>
 </R>
- <R>
<C1>JAMIE FROST</C1>
<C2>FEB-98</C2>
<C3>4417.86</C3>
</R>
- <R>
<C1>KERRY JONES</C1>
 <C2>APR-98</C2>
<C3>3439.10</C3>
</R>
- <R>
<C1>KERRY JONES</C1>
<C2>DEC-97</C2>
 <C3>3263</C3>
</R>
- <R>
<C1>JAMIE FROST</C1>
<C2>NOV-97</C2>
<C3>2907.85</C3>
</R>
- <R>
<C1>KERRY JONES</C1>
<C2>FEB-98</C2>
 <C3>2799.31</C3>
```

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</R>

### FIG. 20D

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- <R>
 <C1>KERRY JONES</C1>
 <C2>MAY-98</C2>
 <C3>2698.64</C3>
 </R>
- <R>
 <C1>JAMIE FROST</C1>
 <C2>APR-98</C2>
 <C3>2657.20</C3>
 </R>
- <R>
 <C1>JAMIE FROST</C1>
 <C2>MAY-98</C2>
 <C3>2549.68</C3>
 </R>
- <R>
 <C1>KERRY JONES</C1>
 <C2>MAR-98</C2>
 <C3>2511.98</C3>
 </R>
- <R>
 <C1>JAMIE FROST</C1>
 <C2>MAR-98</C2>
 <C3>2459.87</C3>
 </R>
- <R>
 <C1>JAMIE FROST</C1>
 <C2>JUN-98</C2>
 <C3>2219.90</C3>
 </R>
- <R>
 <C1>KERRY JONES</C1>
 <C2>JUN-98</C2>
 <C3>2182.29</C3>
 </R>
- <R>
 <C1>KERRY JONES</C1>
 <C2>JAN-98</C2>
 <C3>1516</C3>
```

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</R>



</R>
</DP\_DS>
</RESULTS\_DOC>

<C3>651.06</C3>

### FIG. 21A

2101

- <DF WORKFLOW VERSION="1"> <DF WORKFLOW HEADER DF EDITOR MAX ID="172" FLOW NAME="QTY ANALYSIS"</p> FLOW DESCRIPTION="QTY ANALYSIS FLOW" FLOW STATUS="FLOW STATUS" FLOW NOTES="" FLOW AUTHOR="FLOW AUTHOR" /> - <DF WORKFLOW PARAMETERS> - <PARAMETER NODE ID="13" PARAM\_DATA\_TYPE="STRING"</p> PARAM CAPTION="CONNECT STRING" PARAM\_NAME="CONNECT STRING" PARAM TYPE="OUT"> <PARAM SOURCE PARAM TYPE="VALUE">JDBC:ORACLE:THIN:@172.16.1.34:1521:DEMO30</ PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="14" PARAM DATA TYPE="STRING" PARAM CAPTION="DATABASE USER NAME" PARAM NAME="USER NAME" PARAM TYPE="OUT"> PARAM SOURCE PARAM TYPE="VALUE">RROC609</PARAM SOURCE> ...
/PARAMETER> PARAMETER NODE ID="15" PARAM DATA TYPE="STRING" PARAM CAPTION="DATABASE PASSWORD" PARAM NAME="USER PWD" PARAM TYPE="OUT"> =<PARAM SOURCE PARAM TYPE="VALUE">DPA</PARAM SOURCE> □
/PARAMETER> 型PARAMETER NODE ID="16" PARAM DATA\_TYPE="STRING" PARAM CAPTION="OWNERNAME" PARAM NAME="OWNERNAME" PARAM TYPE="OUT"> PARAM\_SOURCE PARAM\_TYPE="VALUE">QTY\_ANALYSIS</PARAM\_SOURCE> /PARAMETER> - <PARAMETER NODE\_ID="17" PARAM\_DATA TYPE="STRING" PARAM CAPTION="CURRENT PERIOD" PARAM NAME="CURRPERIOD" PARAM TYPE="OUT"> <PARAM SOURCE PARAM TYPE="VALUE">(1997-09) SEP-97 </PARAMETER> </DF WORKFLOW PARAMETERS> - <DF WORKFLOW ACTIVITIES> - <ACTIVITY NODE ID="11"> <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p> ACTIVITY\_DESCRIPTION="ACTIVITY DESCRIPTION" />

DIRECTIVE NAME="SCHEDULER" THREADING EFFECT="SPLIT" DIRECTIVE ID="SB1"

<ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>

DIRECTIVE VERSION="1" DIRECTIVE DESC="SCHEDULE DIRECTIVE" />

### **FIG. 21B**

2102

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE ID="12" PARAM DATA TYPE="STRING"

PARAM\_CAPTION="FREQUENCY" PARAM\_NAME="FREQUENCY" PARAM\_TYPE="IN">

- <PARAM\_SOURCE PARAM\_TYPE="VALUE">0</PARAM\_SOURCE>
- </PARAMETER>
- </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS />
- </ACTIVITY>
- <ACTIVITY NODE ID="18">
- <activity\_header activity\_notes="activity notes"

ACTIVITY\_DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY\_IMPLEMENTATION DIRECTIVE\_VENDOR="DPA" DIRECTIVE\_NAME="CLEAR STORED RESULTS" THREADING\_EFFECT="STANDARD" DIRECTIVE\_ID="CRB1" DIRECTIVE TYPE="" DIRECTIVE VERSION="1" DIRECTIVE DESC="REMOVE PREVIOUS"</p>

RESULT SETS FROM REPOSITORY" />

- ACTIVITY IN PARAMETERS>
- PARAMETER NODE\_ID="19" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="OWNER ID" PARAM NAME="OWNERID" PARAM TYPE="IN">
- ZPARAM SOURCE PARAM TYPE="ID">16</PARAM SOURCE>
- PARAMETER>
- PARAMETER NODE\_ID="20" PARAM\_DATA\_TYPE="STRING"

PARAM\_CAPTION="RESULTNAME" PARAM\_NAME="RESULTNAME" PARAM\_TYPE="IN">
PARAM\_SOURCE PARAM\_TYPE="VALUE">\*</PARAM\_SOURCE>

**☑PARAMETER>** 

**MACTIVITY IN PARAMETERS>** 

**ACTIVITY OUT PARAMETERS />** 

- ₹/ACTIVITY>
- <ACTIVITY NODE ID="21">
  - <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p>

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY\_IMPLEMENTATION DIRECTIVE\_VENDOR="DPA" DIRECTIVE\_NAME="CLEAR PUBLISHED PAGES" THREADING\_EFFECT="STANDARD" DIRECTIVE\_ID="CRC1" DIRECTIVE\_TYPE="" DIRECTIVE\_VERSION="1" DIRECTIVE\_DESC="REMOVE PREVIOUS PUBLISHED PAGES FROM REPOSITORY" />

### **FIG. 21C**

</PARAMETER>

2103

```
- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE ID="22" PARAM DATA TYPE="STRING"
PARAM CAPTION="OWNERID" PARAM NAME="OWNERID" PARAM TYPE="IN">
<PARAM SOURCE PARAM TYPE="ID">16</PARAM SOURCE>
</PARAMETER>
- <PARAMETER NODE ID="23" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE
NAME" PARAM NAME="PAGENAME" PARAM TYPE="IN">
<PARAM SOURCE PARAM TYPE="VALUE">*</PARAM SOURCE>
</PARAMETER>
</ACTIVITY IN PARAMETERS>
<ACTIVITY OUT PARAMETERS />
</ACTIVITY>
- <ACTIVITY NODE ID="26">
<activity header activity notes="activity notes"
ACTIVITY DESCRIPTION="DETAIL QUERY" />
SACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA" DIRECTIVE NAME="DATA
DIRECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE ID="DB3"
DIRECTIVE VERSION="1" DIRECTIVE DESC="RETRIEVE DATA AND ASSEMBLE INTO
RESULT SET" />
-\square ACTIVITY IN PARAMETERS>
PÄRAM CAPTION="SQL" PARAM NAME="SQL" PARAM TYPE="IN">
ZPARAM SOURCE PARAM TYPE="VALUE">SELECT
NW COMPONENT ITEM_D.COMPONENT_ITEM_DESC
MPONENT ITEM DESC, SUM (NW DISC SHORTAGE F. QUANTITY ISSUED)
QUANTITY ISSUED, SUM(NW DISC SHORTAGE F.QUANTITY ON HAND)
QUANTITY ON HAND, SUM (NW_DISC_SHORTAGE F.QUANTITY SHORT)
QUANTITY SHORT, SUM(NW DISC SHORTAGE F. REQUIRED QUANTITY)
REQUIRED QUANTITY FROM NW COMPONENT ITEM D 0
NW_COMPONENT_ITEM_D,NW_DISC_SHORTAGE_F_0
NW DISC SHORTAGE F,NW ORG PERIOD D 0
NW ORG PERIOD D,NW WIP ENTITY D 0 NW WIP ENTITY D WHERE
NW DISC SHORTAGE F.COMPONENT ITEM KEY =
NW COMPONENT ITEM D.COMPONENT ITEM KEY AND
NW DISC SHORTAGE F.ORG PERIOD KEY = NW ORG PERIOD D.ORG PERIOD KEY
AND NW DISC SHORTAGE F.WIP ENTITY KEY = NW WIP ENTITY D.WIP ENTITY KEY
AND NW ORG PERIOD D.ORG PERIOD = '#P1#' GROUP BY
NW COMPONENT ITEM D.COMPONENT ITEM DESC HAVING
SUM(NW DISC SHORTAGE F.REQUIRED QUANTITY) > 0 ORDER BY
REQUIRED QUANTITY DESC. COMPONENT ITEM DESC. REQUIRED QUANTITY.
```

QUANTITY ISSUED, QUANTITY SHORT, QUANTITY ON HAND</PARAM SOURCE>

#### **FIG. 21D**

- <PARAMETER NODE\_ID="28" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="CONNECTION STRING" PARAM\_NAME="CONNECTION\_STRING"
  PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
  </PARAMETER>
- <PARAMETER NODE\_ID="29" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="DATABASE USER NAME" PARAM\_NAME="USERNAME"
  PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">14</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE ID="30" PARAM DATA TYPE="STRING"
- PARAM\_CAPTION="DATABASE PASSWORD" PARAM\_NAME="PWD" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">15</PARAM\_SOURCE>
   </PARAMETER>
- PARAMETER NODE\_ID="31" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="P1" PARAM NAME="P1" PARAM TYPE="IN">
- FPARAM\_SOURCE PARAM\_TYPE="ID">17</PARAM\_SOURCE>
- PARAMETER NODE\_ID="32" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="P2" PARAM NAME="P2" PARAM TYPE="IN">
- □ PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
- <u></u>≤/PARAMETER>
- PARAMETER NODE\_ID="33" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="P3" PARAM NAME="P3" PARAM TYPE="IN">
- SPARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
- \*\*PARAMETER NODE\_ID="34" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="P4" PARAM\_NAME="P4" PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
  - </PARAMETER>
- <PARAMETER NODE\_ID="35" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="P5" PARAM\_NAME="P5" PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
  - </PARAMETER>
  - </ACTIVITY\_IN\_PARAMETERS>

#### **FIG. 21E**

2105

- <ACTIVITY OUT PARAMETERS> - <PARAMETER NODE ID="36" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT DATA" PARAM NAME="RESULTSET" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> - <PARAMETER NODE ID="37" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT METADATA" PARAM NAME="RESULTMETADATA" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY OUT PARAMETERS> </ACTIVITY> - <ACTIVITY NODE ID="39"> <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p> ACTIVITY DESCRIPTION="TREND QUERY" /> MACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA" DIRECTIVE NAME="DATA 聞RECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE ID="DB3" DRECTIVE VERSION="1" DIRECTIVE DESC="RETRIEVE DATA AND ASSEMBLE INTO RESULT SET" /> **\*\*ACTIVITY IN PARAMETERS>** PARAMETER NODE ID="40" PARAM DATA TYPE="PARAMITERIZED SQL STRING" PÅRAM CAPTION="SQL" PARAM NAME="SQL" PARAM TYPE="IN"> ≤PARAM SOURCE PARAM TYPE="VALUE">SELECT NW\_ORG\_PERIOD\_D.ORG\_PERIOD EERIOD NAME, SUM (NW DISC SHORTAGE F. QUANTITY ISSUED) QUANTITY ISSUED, SUM (NW DISC SHORTAGE F.QUANTITY ON HAND) QUANTITY ON HAND, SUM (NW DISC SHORTAGE F. QUANTITY SHORT) QUANTITY\_SHORT,SUM(NW\_DISC\_SHORTAGE F.REQUIRED QUANTITY) REQUIRED QUANTITY FROM NW DISC SHORTAGE F 0 NW DISC SHORTAGE F, NW ORG PERIOD D 0 NW ORG PERIOD D WHERE NW DISC SHORTAGE F.ORG PERIOD KEY = NW ORG PERIOD D.ORG PERIOD KEY GROUP BY NW ORG PERIOD D.ORG PERIOD ORDER BY PERIOD NAME DESC</ PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="41" PARAM DATA TYPE="STRING"</p>
- PARAM\_TYPE="IN">
  <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
  </PARAMETER>

PARAM CAPTION="CONNECTION STRING" PARAM NAME="CONNECTION STRING"

#### FIG. 21F

```
- <PARAMETER NODE ID="42" PARAM DATA TYPE="STRING"
PARAM CAPTION="DATABASE USER NAME" PARAM NAME="USERNAME"
PARAM TYPE="IN">
 <PARAM SOURCE PARAM TYPE="ID">14</PARAM SOURCE>
 </PARAMETER>
- <PARAMETER NODE ID="43" PARAM DATA TYPE="STRING"
PARAM CAPTION="DATABASE PASSWORD" PARAM NAME="PWD" PARAM TYPE="IN">
 <PARAM SOURCE PARAM TYPE="ID">15
 </PARAMETER>
- <PARAMETER NODE ID="44" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P1"</p>
PARAM NAME="P1" PARAM TYPE="IN">
 <PARAM SOURCE PARAM TYPE="ID">17</PARAM SOURCE>
<u></u>≼/PARAMETER>
 FPARAMETER NODE ID="45" PARAM DATA TYPE="STRING" PARAM CAPTION="P2"
PARAM NAME="P2" PARAM TYPE="IN">
INPORTAGE PARAM TYPE="ID">13</PARAM SOURCE>

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₹PARAMETER NODE JD="46" PARAM DATA TYPE="STRING" PARAM CAPTION="P3"
PARAM NAME="P3" PARAM TYPE="IN">
 PARAM SOURCE PARAM TYPE="ID">13</PARAM SOURCE>
F</PARAMETER>
PARAM NAME="P4" PARAM TYPE="IN">
PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
/PARAMETER>
PARAMETER NODE ID="48" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P5"
PARAM NAME="P5" PARAM TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
 </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE_ID="49" PARAM_DATA TYPE="STRING" PARAM CAPTION="RESULT</li>
DATA" PARAM NAME="RESULTSET" PARAM TYPE="OUT">
 <PARAM SOURCE />
 </PARAMETER>
- <PARAMETER NODE ID="50" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT
METADATA" PARAM NAME="RESULTMETADATA" PARAM TYPE="OUT">
 <PARAM SOURCE />
 </PARAMETER>
 </ACTIVITY OUT PARAMETERS>
 </ACTIVITY>
```

# FIG. 21G

PARAM TYPE="IN">

</PARAMETER>

2107

- <ACTIVITY NODE ID="52"> <activity header activity notes="activity notes" ACTIVITY DESCRIPTION="SUMMARY QUERY" /> <activity implementation directive vendor="dpa" directive name="data DIRECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE ID="DB3" DIRECTIVE VERSION="1" DIRECTIVE DESC="RETRIEVE DATA AND ASSEMBLE INTO RESULT SET" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE ID="53" PARAM DATA TYPE="PARAMITERIZED SQL STRING"</li> PARAM CAPTION="SQL" PARAM NAME="SQL" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">SELECT NW COMPONENT ITEM D.COMPONENT ITEM DESC COMPONENT ITEM DESC, SUM(NW DISC SHORTAGE F.QUANTITY ISSUED) QUANTITY ISSUED, SUM(NW DISC SHORTAGE F.QUANTITY ON HAND) QUANTITY ON HAND, SUM (NW DISC SHORTAGE F. QUANTITY SHORT) QUANTITY SHORT, SUM (NW DISC SHORTAGE F. REQUIRED QUANTITY) REQUIRED QUANTITY FROM NW COMPONENT ITEM D 0 NW COMPONENT ITEM D,NW DISC SHORTAGE F 0 NW DISC SHORTAGE F,NW ORG PERIOD D 0 NW ORG PERIOD D,NW WIP ENTITY D ONW WIP ENTITY D WHERE NW DISC SHORTAGE F.COMPONENT ITEM KEY = NW COMPONENT ITEM D.COMPONENT ITEM KEY AND NW DISC SHORTAGE F.ORG PERIOD KEY = NW ORG PERIOD D.ORG PERIOD KEY AND NW DISC SHORTAGE F.WIP ENTITY KEY = NW WIP\_ENTITY D.WIP ENTITY KEY AND NW ORG PERIOD D.ORG PERIOD = '#P1#' GROUP BY MW COMPONENT ITEM D.COMPONENT ITEM DESC HAVING SUM(NW DISC SHORTAGE F.REQUIRED QUANTITY) > 0 ORDER BY REQUIRED QUANTITY DESC, COMPONENT ITEM DESC, REQUIRED QUANTITY. QUANTITY ISSUED, QUANTITY SHORT, QUANTITY ON HAND</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="54" PARAM DATA TYPE="STRING"</p> PARAM CAPTION="CONNECTION STRING" PARAM NAME="CONNECTION STRING" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">13</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="55" PARAM DATA TYPE="STRING" PARAM CAPTION="DATABASE USER NAME" PARAM NAME="USERNAME"

<PARAM SOURCE PARAM TYPE="ID">14</PARAM SOURCE>

#### FIG. 21H

</ACTIVITY>

2108

- <PARAMETER NODE ID="56" PARAM DATA TYPE="STRING" PARAM CAPTION="DATABASE PASSWORD" PARAM NAME="PWD" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">15/PARAM SOURCE> </PARAMETER> - <PARAMETER NODE\_ID="57" PARAM DATA TYPE="STRING" PARAM CAPTION="P1"</p> PARAM NAME="P1" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">17</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="58" PARAM DATA TYPE="STRING" PARAM CAPTION="P2"</p> PARAM NAME="P2" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">13</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="59" PARAM DATA TYPE="STRING" PARAM CAPTION="P3"</p> PARAM NAME="P3" PARAM TYPE="IN"> \*PARAM SOURCE PARAM TYPE="ID">13</PARAM SOURCE> PARAMETER> PARAM NAME="P4" PARAM TYPE="IN"> ZPARAM\_SOURCE PARAM TYPE="ID">13</PARAM SOURCE> - PARAMETER NODE ID="61" PARAM DATA TYPE="STRING" PARAM CAPTION="P5" PARAM NAME="P5" PARAM TYPE="IN"> ZPARAM SOURCE PARAM TYPE="ID">13</PARAM SOURCE> PARAMETER> **ACTIVITY IN PARAMETERS>** - ≤ACTIVITY OUT PARAMETERS> - <PARAMETER NODE ID="62" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT DATA" PARAM NAME="RESULTSET" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> - <PARAMETER NODE ID="63" PARAM\_DATA TYPE="STRING" PARAM CAPTION="RESULT METADATA" PARAM NAME="RESULTMETADATA" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY OUT PARAMETERS>

### FIG. 21I

2109

- <ACTIVITY NODE ID="65"> <ACTIVITY\_HEADER ACTIVITY NOTES="ACTIVITY NOTES"</pre> ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" /> <ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p> THREADING EFFECT="STANDARD" DIRECTIVE NAME="SAVE RESULTS" DIRECTIVE ID="SR1" DIRECTIVE TYPE="" DIRECTIVE VERSION="1" DIRECTIVE DESC="SAVES RESULTS TO REPOSITORY" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE ID="66" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT SET OWNER" PARAM NAME="OWNER" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">16</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="67" PARAM\_DATA TYPE="STRING" PARAM\_CAPTION="RESULT SET" PARAM NAME="RESULTSET" PARAM TYPE="IN"> SPARAM SOURCE PARAM TYPE="ID">36</PARAM SOURCE> ■PARAMETER> PARAMETER NODE ID="68" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT SET METADATA" PARAM NAME="RESULTMETADATA" PARAM TYPE="IN"> ≧PARAM\_SOURCE PARAM\_TYPE="ID">37</PARAM\_SOURCE> METER> -SPARAMETER NODE ID="69" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT SET NAME" PARAM NAME="RESULTNAME" PARAM TYPE="IN"> PARAM SOURCE PARAM TYPE="VALUE">DETAIL</PARAM SOURCE> S/PARAMETER> \$/ACTIVITY IN PARAMETERS> -ACTIVITY OUT PARAMETERS> -SPARAMETER NODE ID="70" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULTSET ID" PARAM NAME="RESULTSETID" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY OUT PARAMETERS> </ACTIVITY> - <ACTIVITY NODE ID="72"> <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p> ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" /> <ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>

THREADING EFFECT="STANDARD" DIRECTIVE NAME="SAVE RESULTS"

DIRECTIVE\_ID="SR1" DIRECTIVE\_TYPE="" DIRECTIVE VERSION="1"

DIRECTIVE DESC="SAVES RESULTS TO REPOSITORY" />

# **FIG. 21J**

- <ACTIVITY\_IN\_PARAMETERS>
- <PARAMETER NODE\_ID="73" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="RESULT SET OWNER" PARAM NAME="OWNER" PARAM TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="ID">16</PARAM\_SOURCE>
- </PARAMETER>
- <PARAMETER NODE\_ID="74" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="RESULT SET" PARAM NAME="RESULTSET" PARAM TYPE="IN">
- <PARAM SOURCE PARAM\_TYPE="ID">49</PARAM SOURCE>
- </PARAMETER>
- <PARAMETER NODE\_ID="75" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="RESULT
- SET METADATA" PARAM\_NAME="RESULTMETADATA" PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="ID">50</PARAM\_SOURCE>
- </PARAMETER>
- PARAMETER NODE\_ID="76" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="RESULT SET NAME" PARAM NAME="RESULTNAME" PARAM TYPE="IN">
- PARAM\_SOURCE PARAM\_TYPE="VALUE">TREND</PARAM\_SOURCE>
- PARAMETER>
- ACTIVITY IN PARAMETERS>
- -- ACTIVITY OUT PARAMETERS>
- PARAMETER NODE ID="77" PARAM DATA TYPE="STRING"
- PARAM\_CAPTION="RESULTSET ID" PARAM\_NAME="RESULTSETID" PARAM\_TYPE="OUT">
  PARAM\_SOURCE />
- ☑/PARAMETER>
- SACTIVITY OUT PARAMETERS>
- **ACTIVITY>**
- ACTIVITY NODE ID="79">
- <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p>
- ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />
  - <activity implementation directive vendor="dpa"
- THREADING EFFECT="STANDARD" DIRECTIVE NAME="SAVE RESULTS"
- DIRECTIVE ID="SR1" DIRECTIVE TYPE="" DIRECTIVE VERSION="1"
- DIRECTIVE DESC="SAVES RESULTS TO REPOSITORY" />
- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE\_ID="80" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="RESULT SET OWNER" PARAM NAME="OWNER" PARAM TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">16</PARAM\_SOURCE>
  - </PARAMETER>

#### FIG. 21K

```
- <PARAMETER NODE_ID="81" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT
SET" PARAM NAME="RESULTSET" PARAM TYPE="IN">
 <PARAM SOURCE PARAM TYPE="ID">62</PARAM SOURCE>
 </PARAMETER>
- <PARAMETER NODE ID="82" PARAM_DATA TYPE="STRING" PARAM CAPTION="RESULT
SET METADATA" PARAM NAME="RESULTMETADATA" PARAM TYPE="IN">
 <PARAM SOURCE PARAM TYPE="ID">63</PARAM SOURCE>
· </PARAMETER>
- <PARAMETER NODE ID="83" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT
SET NAME" PARAM NAME="RESULTNAME" PARAM TYPE="IN">
 <PARAM SOURCE PARAM TYPE="VALUE">SUMMARY</PARAM SOURCE>
 </PARAMETER>
 MACTIVITY IN PARAMETERS>
- SACTIVITY OUT PARAMETERS>
- PARAMETER NODE ID="84" PARAM DATA TYPE="STRING"
PARAM CAPTION="RESULTSET ID" PARAM NAME="RESULTSETID" PARAM TYPE="OUT">
 PARAM SOURCE />
 /PARAMETER>
 ACTIVITY_OUT_PARAMETERS>
 </ACTIVITY>
-SACTIVITY NODE ID="87">
 EACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"
A€TIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />
 SACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"
THREADING EFFECT="STANDARD" DIRECTIVE NAME="PUBLISH PAGE"
DIRECTIVE ID="CR2" DIRECTIVE TYPE="" DIRECTIVE VERSION="1"
DIRECTIVE DESC="PUBLISHES PAGE & GRANTS SECURITY" />
- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE ID="88" PARAM DATA TYPE="STRING" PARAM CAPTION="GRANT
SECURITY LIST" PARAM NAME="SECDOC" PARAM TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">162</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE ID="89" PARAM DATA TYPE="STRING"
PARAM CAPTION="METADATA FOR SECDOC" PARAM NAME="SECMETA"
PARAM TYPE="IN">
 <PARAM SOURCE PARAM TYPE="ID">163</PARAM SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="90" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="GRANT</p>
SECURITY LIST" PARAM NAME="SECCOLNAME" PARAM TYPE="IN">
 <PARAM SOURCE PARAM TYPE="VALUE">USERNAME</PARAM SOURCE>
 </PARAMETER>
```

### FIG. 21L

</PARAMETER>

- <PARAMETER NODE\_ID="91" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="PAGE OWNER" PARAM\_NAME="OWNER" PARAM\_TYPE="IN"> < PARAM\_SOLIDGE PARAM\_TYPE="ID">16</PARAM\_SOLIDGE>
- <PARAM\_SOURCE PARAM\_TYPE="ID">16</PARAM\_SOURCE>
  </PARAMETER>
- <PARAMETER NODE\_ID="92" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="PAGE NAME" PARAM NAME="PAGENAME" PARAM TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="VALUE">STARTPAGE</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE\_ID="93" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="PAGE SLICE NAME" PARAM\_NAME="PAGESLICENAME" PARAM\_TYPE="IN"> <PARAM\_SOURCE PARAM\_TYPE="VALUE">FIRST</PARAM\_SOURCE> </PARAM\_SOURCE>
- </PARAMETER> - <PARAMETER NODE ID="94" PARAM DATA TYPE="STRING" PARAM CAPTION="PAGE DEFINITION" PARAM NAME="PAGEDEFN" PARAM TYPE="IN"> PARAM SOURCE PARAM TYPE="VALUE"><DP\_PAGE\_DEF><LAYER LAYER TYPE="HORIZONTAL" LAYER BORDER="0" LAYER PADDING="3" LEYER HEIGHT="100%" LAYER WIDTH="100%"><LAYER LAYER TYPE="VERTICAL" LÄYER PADDING="3" LAYER BORDER="0" LAYER HEIGHT="225" LAYER WIDTH="100%"><LAYER LAYER TYPE="WIDGET" LAYER HEIGHT="100%" LAYER WIDTH="50%"><WIDGET WIDGET ID="DP PIE CHART"><PARAMETERS><PARAM PARAM NAME="TITLE">MY PIE</PARAM><PARAM PARAM NAME="DSID">#P3#</ PARAM><PARAM PARAM NAME="VALUECOL">REQUIRED QUANTITY</PARAM><PARAM PARAM NAME="LABELCOL">COMPONENT ITEM DESC</PARAM><PARAM PARAM NAME="FILTERTYPE">TOP</PARAM><PARAM PARAM NAME="FILTERVAL">10</ PARAM></PARAMETERS></WIDGET></LAYER><LAYER LAYER TYPE="WIDGET" LAYER HEIGHT="100%" LAYER WIDTH="50%"><WIDGET WIDGET ID="DP BAR CHART2"><PARAMETERS><PARAM PARAM NAME="TITLE">MY CHART TITLE</PARAM><PARAM PARAM NAME="DSID">#P2#</PARAM><PARAM PARAM NAME="MEASURECOLS">QUANTITY ON HANDIQUANTITY ISSUEDIQUANTITY SH ORT|REQUIRED QUANTITY</PARAM><PARAM PARAM NAME="XAXISLABELS">ON HANDIISSUEDISHORTIREQUIRED</PARAM><PARAM PARAM NAME="SERIESCOL">PERIOD NAME</PARAM></PARAMETERS></WIDGET></ LAYER></LAYER><LAYER LAYER TYPE="HORIZONTAL" LAYER BORDER="0" LAYER PADDING="3" LAYER HEIGHT="80%" LAYER WIDTH="100%"><LAYER LAYER TYPE="WIDGET" LAYER HEIGHT="100%" LAYER WIDTH="100%"><WIDGET WIDGET ID="DP REPORT VIEWER"><PARAMETERS><PARAM PARAM NAME="TITLE">MY TITLE</PARAM> <PARAM PARAM NAME="DSID">#P1#</PARAM></PARAMETERS></ WIDGET></LAYER></LAYER></DP PAGE DEF></PARAM SOURCE>
- <PARAMETER NODE\_ID="95" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="IN
  RESULTS KEY" PARAM\_NAME="P1" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">70</PARAM\_SOURCE>
   </PARAMETER>

#### FIG. 21M

- <PARAMETER NODE\_ID="96" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="IN RESULTS KEY" PARAM\_NAME="P2" PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">77</PARAM\_SOURCE>
  - </PARAMETER>
- <PARAMETER NODE\_ID="97" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="IN RESULTS KEY" PARAM NAME="P3" PARAM TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">84</PARAM\_SOURCE>
  - </PARAMETER>
- <PARAMETER NODE\_ID="98" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="IN RESULTS KEY" PARAM NAME="P4" PARAM TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">70</PARAM\_SOURCE>
  - </PARAMETER>
- <PARAMETER NODE\_ID="99" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="IN RESULTS KEY" PARAM\_NAME="P5" PARAM\_TYPE="IN">
- PARAM\_SOURCE PARAM\_TYPE="ID">70</PARAM\_SOURCE>
- **Z/PARAMETER>**
- PARAMETER NODE\_ID="100" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="IN RESULTS KEY" PARAM NAME="P6" PARAM TYPE="IN">
- ₩PARAM SOURCE PARAM TYPE="ID">70</PARAM SOURCE>
- ✓/PARAMETER>
- ACTIVITY\_IN\_PARAMETERS>
- -**\_**ACTIVITY OUT PARAMETERS>
- -XPARAMETER NODE\_ID="101" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="PAGE ID" PARAM\_NAME="PAGEID" PARAM\_TYPE="OUT">
- **SPARAM SOURCE />**
- **Z/PARAMETER>**
- PARAMETER NODE\_ID="102" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="PAGE OWNER" PARAM\_NAME="OWNER" PARAM\_TYPE="OUT">
  - <PARAM SOURCE />
  - </PARAMETER>
- <PARAMETER NODE\_ID="103" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="PAGE NAME" PARAM\_NAME="PAGENAME" PARAM\_TYPE="OUT">
  - <PARAM SOURCE />
  - </PARAMETER>
- <PARAMETER NODE\_ID="104" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="PAGE SLICE NAME" PARAM\_NAME="PAGESLICENAME" PARAM\_TYPE="OUT">
  - <PARAM SOURCE />
  - </PARAMETER>
  - </ACTIVITY OUT PARAMETERS>
  - </ACTIVITY>

# FIG. 21N

```
- <ACTIVITY NODE ID="108">
 <activity_header activity_notes="activity notes"
ACTIVITY DESCRIPTION="OUTOF BOUNDS QTY" />
 <activity implementation directive vendor="dpa"
THREADING EFFECT="STANDARD" DIRECTIVE NAME="ADVANCED FILTER"
DIRECTIVE_ID="ABFILTER" DIRECTIVE TYPE="" DIRECTIVE VERSION="1"
DIRECTIVE DESC="FILTER RESULTS" />
- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE ID="109" PARAM DATA TYPE="STRING" PARAM CAPTION="FILTER
EXPRESSION" PARAM NAME="FILTER EXP" PARAM TYPE="IN">
 <PARAM SOURCE PARAM TYPE="VALUE">#REQUIRED QUANTITY# > 200
PARAM SOURCE>
 </PARAMETER>
- SPARAMETER NODE ID="110" PARAM DATA TYPE="STRING"
PÄRAM CAPTION="RESULTS METADATA" PARAM NAME="METADOC" PARAM TYPE="IN">
 SPARAM SOURCE PARAM TYPE="ID">63</PARAM SOURCE>
PARAMETER>
-XPARAMETER NODE ID="111" PARAM DATA TYPE="STRING"
PARAM CAPTION="RESULTS" PARAM NAME="RESULTSDOC" PARAM TYPE="IN">
≦PARAM SOURCE PARAM_TYPE="ID">62</PARAM SOURCE>

∠/PARAMETER>

SACTIVITY IN PARAMETERS>
- ACTIVITY OUT PARAMETERS>
- PARAMETER NODE ID="112" PARAM DATA TYPE="STRING"
PARAM CAPTION="RESULTS METADATA" PARAM NAME="METADOC"
PARAM TYPE="OUT">
 <PARAM SOURCE />
</PARAMETER>
- <PARAMETER NODE ID="113" PARAM DATA TYPE="STRING"</p>
PARAM CAPTION="RESULTS" PARAM NAME="RESULTSDOC" PARAM TYPE="OUT">
<PARAM SOURCE />
</PARAMETER>
- <PARAMETER NODE ID="114" PARAM DATA TYPE="STRING" PARAM CAPTION="ROW
COUNT" PARAM NAME="ROWCOUNT" PARAM TYPE="OUT">
<PARAM SOURCE />
</PARAMETER>
</ACTIVITY OUT PARAMETERS>
</ACTIVITY>
```

### FIG. 210

</PARAMETER>

</ACTIVITY\_IN\_PARAMETERS>

```
- <ACTIVITY NODE ID="116">
 <activity header activity_notes="activity notes"
ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />
 <ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>
THREADING EFFECT="STANDARD" DIRECTIVE NAME="TEXT EMAILER"
DIRECTIVE ID="TEXTEMAILER" DIRECTIVE TYPE="" DIRECTIVE VERSION="1"
DIRECTIVE DESC="TEXT EMAILER" />
- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE ID="117" PARAM DATA TYPE="STRING"
PARAM CAPTION="SUBJECT EXPRESSION" PARAM NAME="SUBJECT EXP"
PARAM TYPE="IN">
 <PARAM SOURCE PARAM TYPE="VALUE">OUT OF BOUNDS QTY CONDITION</
PARAM SOURCE>
PARAMETER>
- PARAMETER NODE ID="118" PARAM DATA TYPE="STRING"
PARAM CAPTION="MESSAGE EXPRESSION" PARAM NAME="MESSAGE EXP"
PARAM TYPE="IN">
SPARAM SOURCE PARAM TYPE="VALUE">COMPONENT: #COMPONENT ITEM DESC#
REQUIRES #REQUIRED QUANTITY# ADDITIONAL UNITS</PARAM SOURCE>
S/PARAMETER>
- - PARAMETER NODE ID="119" PARAM DATA TYPE="STRING" PARAM CAPTION="EMAIL
ADDRESSES" PARAM NAME="EMAIL ADDRESSES" PARAM TYPE="IN">
 SPARAM SOURCE PARAM TYPE="VALUE">EXH@DPAPPLICATIONS.COM</
PARAM SOURCE>
APARAMETER>
-≦PARAMETER NODE ID="120" PARAM DATA TYPE="STRING" PARAM CAPTION="SEND
FROM ADDRESS" PARAM NAME="FROM ADDRESS" PARAM TYPE="IN">
<PARAM SOURCE PARAM TYPE="VALUE">DF@DPAPPLICATIONS.COM
PARAM SOURCE>
 </PARAMETER>
- <PARAMETER NODE ID="121" PARAM DATA TYPE="STRING"</p>
PARAM CAPTION="RESULTS METADATA" PARAM NAME="METADOC" PARAM TYPE="IN">
 <PARAM SOURCE PARAM TYPE="ID">112</PARAM SOURCE>
</PARAMETER>
- <PARAMETER NODE ID="122" PARAM DATA TYPE="STRING"
PARAM CAPTION="RESULTS" PARAM NAME="RESULTSDOC" PARAM TYPE="IN">
<PARAM SOURCE PARAM TYPE="ID">113</PARAM SOURCE>
```

FIG. 21P

2116

```
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE ID="123" PARAM_DATA TYPE="STRING" PARAM CAPTION="ERROR</li>
MESSAGES" PARAM NAME="ERROR" PARAM TYPE="OUT">
 <PARAM SOURCE />
 </PARAMETER>
 </ACTIVITY_OUT_PARAMETERS>
 </ACTIVITY>
- <ACTIVITY NODE ID="125">
 <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p>
ACTIVITY DESCRIPTION="EMAIL LINK" />
 <ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>
THREADING EFFECT="STANDARD" DIRECTIVE NAME="SMTP EMAIL DIRECTIVE"
DHRECTIVE ID="MB2" DIRECTIVE TYPE="" DIRECTIVE VERSION="1"
DIRECTIVE DESC="SEND PUBLISHED PAGES" />
- CACTIVITY IN PARAMETERS>
- PARAMETER NODE ID="126" PARAM DATA TYPE="STRING" PARAM CAPTION="EMAIL"
ADDRESSES" PARAM NAME="ADDRDOC" PARAM TYPE="IN">
SPARAM SOURCE PARAM TYPE="ID">162</PARAM SOURCE>
 ₹/PARAMETER>
- PARAMETER NODE ID="127" PARAM DATA TYPE="STRING"
PARAM CAPTION="METADATA FOR ADDRDOC" PARAM NAME="ADDRMETA"
PARAM TYPE="IN">
SPARAM SOURCE PARAM TYPE="ID">163</PARAM SOURCE>
/PARAMETER>
- PARAMETER NODE ID="128" PARAM DATA TYPE="STRING" PARAM CAPTION="EMAIL"
COLUMN NAME" PARAM NAME="ADDRCOLNAME" PARAM TYPE="IN">
 <PARAM SOURCE PARAM TYPE="VALUE">EMAIL ADDRESS</PARAM SOURCE>
 </PARAMETER>
- <PARAMETER NODE ID="129" PARAM DATA TYPE="STRING" PARAM CAPTION="EMAIL"
COLUMN NAME" PARAM NAME="IDCOLNAME" PARAM TYPE="IN">
```

</parameter>
- <PARAMETER NODE ID="130" PARAM DATA TYPE="STRING"</pre>

<PARAM SOURCE PARAM TYPE="VALUE">USERNAME</PARAM SOURCE>

- PARAM CAPTION="SUBJECT" PARAM NAME="SUBJECT" PARAM TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="VALUE">QTY ANALYSIS UPDATED</PARAM\_SOURCE>
  </PARAMETER>

# FIG. 21Q

ASSEMBLE INTO RESULT SET" />

```
- <PARAMETER NODE ID="131" PARAM DATA TYPE="STRING" PARAM CAPTION="PAGE
OWNER" PARAM NAME="OWNER" PARAM TYPE="IN">
<PARAM SOURCE PARAM TYPE="ID">102</PARAM SOURCE>
</PARAMETER>
- <PARAMETER NODE ID="132" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE
NAME" PARAM NAME="PAGENAME" PARAM TYPE="IN">
<PARAM SOURCE PARAM TYPE="ID">103</PARAM SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="133" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE
INSTANCE" PARAM NAME="PAGEINST" PARAM TYPE="IN">
<PARAM SOURCE PARAM TYPE="ID">104</PARAM SOURCE>
 ≤/PARAMETER>
SPARAMETER NODE ID="134" PARAM DATA TYPE="STRING" PARAM CAPTION="MAIL
FORMAT" PARAM NAME="FORMAT" PARAM TYPE="IN">
了PARAM_SOURCE PARAM_TYPE="VALUE">DYNAM</PARAM_SOURCE>
PARAMETER>
FROM MAIL ADDRESS" PARAM NAME="SENDFROM" PARAM TYPE="IN">

☑PARAM SOURCE PARAM TYPE="VALUE">DF@DPAPPLICATIONS.COM
PARAM SOURCE>
/PARAMETER>
A/ACTIVITY_IN_PARAMETERS>
SPARAMETER NODE ID="136" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="ERROR
MESSAGES" PARAM NAME="ERROR MSG" PARAM TYPE="OUT">
<PARAM SOURCE />
</PARAMETER>
</ACTIVITY OUT PARAMETERS>
</ACTIVITY>
- <ACTIVITY NODE ID="152">
<activity_header activity_notes="activity notes"
ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />
<ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>
THREADING EFFECT="STANDARD" DIRECTIVE NAME="DATA DIRECTIVE"
DIRECTIVE ID="DB3" DIRECTIVE VERSION="1" DIRECTIVE DESC="RETRIEVE DATA AND
```

### FIG. 21R

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE\_ID="153" PARAM\_DATA\_TYPE="PARAMITERIZED SQL STRING" PARAM CAPTION="SQL" PARAM NAME="SQL" PARAM TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="VALUE">SELECT USERNAME,EMAIL\_ADDRESS FROM
  OA3.DF\_QTYAPP\_USERS
  - </PARAMETER>
- <PARAMETER NODE ID="154" PARAM DATA TYPE="STRING"
- PARAM\_CAPTION="CONNECTION STRING" PARAM\_NAME="CONNECTION\_STRING" PARAM TYPE="IN">
  - <PARAM SOURCE
- PARAM\_TYPE="VALUE">JDBC:ORACLE:THIN:@HD.DPAPPLICATIONS.COM:1521:NRB816</P>
  - </PARAMETER>
- <PARAMETER NODE ID="155" PARAM DATA TYPE="STRING"
- PARAM\_CAPTION="DATABASE USER NAME" PARAM\_NAME="USERNAME" PARAM\_TYPE="IN">
- \*PARAM\_SOURCE PARAM\_TYPE="VALUE">OA3</PARAM\_SOURCE>
- **|**| | /PARAMETER>
- PARAMETER NODE ID="156" PARAM DATA TYPE="STRING"
- PARAM\_CAPTION="DATABASE PASSWORD" PARAM\_NAME="PWD" PARAM\_TYPE="IN">
- PARAM\_SOURCE PARAM\_TYPE="VALUE">OA3</PARAM\_SOURCE>
- -- PARAMETER NODE\_ID="157" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="P1" PARAM\_NAME="P1" PARAM\_TYPE="IN">
- PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
- /PARAMETER>
- \*\*PARAMETER NODE\_ID="158" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="P2" PARAM NAME="P2" PARAM TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
  - </PARAMETER>
- <PARAMETER NODE\_ID="159" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="P3" PARAM\_NAME="P3" PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
- </PARAMETER>
- <PARAMETER NODE\_ID="160" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="P4" PARAM\_NAME="P4" PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
  - </PARAMETER>
- <PARAMETER NODE\_ID="161" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="P5" PARAM\_NAME="P5" PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
  - </PARAMETER>
  - </ACTIVITY\_IN\_PARAMETERS>

**FIG. 21S** 

2119

- <ACTIVITY OUT PARAMETERS> - <PARAMETER NODE ID="162" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT DATA" PARAM NAME="RESULTSET" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> - <PARAMETER NODE ID="163" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT METADATA" PARAM NAME="RESULTMETADATA" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY OUT PARAMETERS> </ACTIVITY> **Z**/DF WORKFLOW ACTIVITIES> - SDF WORKFLOW TRANSITIONS> STRANSITION NODE ID="24" FROM ACTIVITY ID="11" TO ACTIVITY ID="18" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> TRANSITION NODE ID="25" FROM ACTIVITY ID="11" TO ACTIVITY ID="21" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> TRANSITION NODE ID="71" FROM ACTIVITY ID="26" TO ACTIVITY ID="65" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> ₹TRANSITION NODE ID="78" FROM ACTIVITY ID="39" TO ACTIVITY ID="72" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> TRANSITION NODE ID="85" FROM ACTIVITY ID="52" TO ACTIVITY ID="79" PANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> ₹TRANSITION NODE ID="105" FROM ACTIVITY ID="65" TO ACTIVITY ID="87" TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="106" FROM ACTIVITY ID="72" TO ACTIVITY ID="87" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="107" FROM ACTIVITY ID="79" TO ACTIVITY ID="87" TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="115" FROM ACTIVITY ID="52" TO ACTIVITY ID="108" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="124" FROM ACTIVITY ID="108" TO ACTIVITY ID="116" TRANSITION EXPRESSION="#114# > "0"" DESCRIPTION="EMAIL ONLY EXCEPTIONS" NOTES="NOTES" />

**FIG. 21T** 

2120

<TRANSITION NODE ID="137" FROM ACTIVITY ID="87" TO ACTIVITY ID="125" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="164" FROM ACTIVITY ID="18" TO ACTIVITY ID="152" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="165" FROM ACTIVITY ID="21" TO ACTIVITY ID="152" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="166" FROM ACTIVITY ID="152" TO ACTIVITY ID="26" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="167" FROM ACTIVITY ID="152" TO ACTIVITY ID="39" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="168" FROM ACTIVITY ID="152" TO ACTIVITY ID="52" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> DF WORKFLOW TRANSITIONS> - FDF WORKFLOW EDITOR> \*ACTIVITY VISUAL EDITING NODE ID="11" YCOORD="140" XCOORD="12" /> ☑ACTIVITY VISUAL EDITING NODE ID="18" YCOORD="330" XCOORD="47" /> ACTIVITY VISUAL EDITING NODE ID="21" YCOORD="50" XCOORD="60" /> ACTIVITY VISUAL EDITING NODE ID="26" YCOORD="200" XCOORD="294" /> ACTIVITY VISUAL EDITING NODE ID="39" YCOORD="70" XCOORD="294" /> ACTIVITY\_VISUAL\_EDITING NODE ID="52" YCOORD="320" XCOORD="304" /> FACTIVITY VISUAL EDITING NODE ID="65" YCOORD="200" XCOORD="408" /> SACTIVITY\_VISUAL\_EDITING NODE ID="72" YCOORD="70" XCOORD="408" /> SACTIVITY VISUAL EDITING NODE ID="79" YCOORD="320" XCOORD="428" /> ACTIVITY VISUAL EDITING NODE ID="87" YCOORD="200" XCOORD="537" /> ACTIVITY VISUAL EDITING NODE ID="108" YCOORD="430" XCOORD="359" /> <ACTIVITY VISUAL EDITING NODE ID="116" YCOORD="420" XCOORD="587" /> <ACTIVITY VISUAL EDITING NODE ID="125" YCOORD="320" XCOORD="580" /> <ACTIVITY VISUAL EDITING NODE ID="152" YCOORD="200" XCOORD="160" /> </DF WORKFLOW EDITOR> </DF WORKFLOW>

2201

#### FIG. 22A

>

</COLUMN DEFS>

<DP QUERY DEF VERSION="1"> <DPA IDENTIFIERS DATA SET="OAS" WH OWNER NAME="PART"/> <HINTS/> <COLUMN DEFS> <COLUMN\_DEF SUMMARY\_TYPE="SUM" COLUMN\_NAME="PTD\_BUDGET" COLUMN ALIAS="PTD BUDGET" COLUMN SORT ORDER="3" COLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR="" COLUMN POSITION="3" TABLE ALIAS="INCOME STMT A" COLUMN TAG="PTD BUDGET"/ <COLUMN DEF SUMMARY TYPE="NONE" COLUMN NAME="LINE NAME" COLUMN ALIAS="LINE NAME" COLUMN SORT ORDER="1" COLUMN SORT ATTRIBUTE="ASC" COLUMN TYPE="ATTRIBUTE" COLUMN EXPR="" COLUMN POSITION="1" TABLE ALIAS="INC STMT LINES D" COLUMN TAG="LINE NAME"/ 2 <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD VARIANCE PCT"</p> D COLUMN ALIAS="PTD VARIANCE PCT" COLUMN SORT ORDER="6" ÖÖLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR="" COLUMN POSITION="6" TABLE ALIAS="INCOME STMT A" COLUMN\_TAG="PTD\_VAR\_PCT"/> <COLUMN DEF SUMMARY TYPE="NONE" COLUMN NAME="DEPARTMENT DESC"</p> COLUMN ALIAS="DEPT DESC" COLUMN SORT ORDER="2" COLUMN SORT ATTRIBUTE="ASC" COLUMN TYPE="ATTRIBUTE" COLUMN EXPR="" OLUMN POSITION="2" TABLE ALIAS="DEPARTMENT D" COLUMN TAG="DEPT DESC"/> <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD VARIANCE"</p> **©**OLUMN ALIAS="PTD VARIANCE" COLUMN SORT ORDER="5". COLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR="" "COLUMN POSITION="5" TABLE ALIAS="INCOME STMT A" COLUMN TAG="PTD VAR"/> <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD ACTUAL"</p> COLUMN ALIAS="PTD ACTUAL" COLUMN SORT ORDER="4" COLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR=""

COLUMN POSITION="4" TABLE ALIAS="INCOME STMT A" COLUMN TAG="PTD ACTUAL"/

#### FIG. 22B

```
<TABLE DEFS>
    <TABLE DEF TABLE ALIAS="VENDOR D" TABLE NAME="VENDOR D"/>
    <TABLE_DEF TABLE_ALIAS="AP_INV_DETAIL_F" TABLE_NAME="AP_INV_DETAIL_F"/>
    <TABLE DEF TABLE ALIAS="INCOME STMT A" TABLE_NAME="INCOME STMT A"/>
    <TABLE DEF TABLE ALIAS="DEPARTMENT D" TABLE NAME="DEPARTMENT D"/>
    <TABLE DEF TABLE_ALIAS="INC_STMT_LINES D"
TABLE NAME="INC STMT LINES D"/>
   </TABLE DEFS>
   <DETAIL FILTERS>
    <FILTER FILTER TYPE="VALUE" COLUMN TEXT="PERIOD KEY"</pre>
TABLE ALIAS="AP INV DETAIL F" FILTER PREC OPER="AND" FILTER OPERATOR="=">
     <FILTER VALUE VALUE DATA TYPE="STRING">DEC-97</FILTER VALUE>
    </FILTER>
    <FILTER FILTER TYPE="VALUE" COLUMN TEXT="VENDOR TYPE"</pre>
ŤÅBLE ALIAS="VENDOR D" FILTER PREC OPER="AND" FILTER OPERATOR="=">
     <FILTER VALUE VALUE DATA TYPE="STRING">EMPLOYEE</FILTER VALUE>
ű
    </FILTER>
Ш
    <FILTER FILTER TYPE="VALUE" COLUMN TEXT="COMPANY KEY"</pre>
TABLE ALIAS="AP INV DETAIL F" FILTER PREC OPER="AND" FILTER OPERATOR="=">
     <FILTER VALUE VALUE DATA TYPE="STRING">01</FILTER VALUE>
Ų
    </FILTER>
    <FILTER FILTER TYPE="VALUE" COLUMN TEXT="DEPARTMENT KEY"</pre>
TABLE ALIAS="AP INV DETAIL F" FILTER PREC OPER="AND" FILTER_OPERATOR="=">
     <FILTER VALUE VALUE_DATA_TYPE="STRING">560</FILTER_VALUE>
    </FILTER>
 </DETAIL FILTERS>
 <AGGREGATE FILTERS>
    <FILTER FILTER TYPE="VALUE" COLUMN TEXT="SUM(INVOICE LINE AMOUNT)"</pre>
TABLE ALIAS="AP INV DETAIL F" FILTER PREC OPER="AND"
FILTER OPERATOR="&GT:">
     <FILTER VALUE VALUE DATA TYPE="NUMBER">0</FILTER VALUE>
    </FILTER>
  </AGGREGATE FILTERS>
 </DP_QUERY_DEF>
```

#### FIG. 23A

```
- <DP SCHEMA DOC VERSION="1">
 <DPA QUERY SERVER INFO SERVICE="DPA QUERY SERVER" MACHINE="EXH 2K"</p>
PORT="8069" WAREHOUSE SERVER="HD.DPAPPLICATIONS.COM"
WAREHOUSE DBNAME="DEMO30" WAREHOUSE OWNER="RROC"
SCHEMA="AP INV DETAIL F" DATA SET="NW">FOODADDY</
DPA QUERY SERVER INFO>
- <DP DIMENSIONS>
- <DIMENSION LABEL="ACCOUNTING DATE" NAME="ACCOUNTING DATE D">
  <a triple><attribute label="accounting date key" />
  <ATTRIBUTE LABEL="ACCOUNTING MONTH" NAME="ACCOUNTING MONTH" />
  <ATTRIBUTE LABEL="ACCOUNTING PERIOD" NAME="ACCOUNTING PERIOD" />
  <attribute label="accounting period key"
NAME="ACCOUNTING PERIOD KEY" />
 ATTRIBUTE LABEL="ACCOUNTING PERIOD QUARTER"
NAME="ACCOUNTING PERIOD QUARTER" />
 ATTRIBUTE LABEL="ACCOUNTING QUARTER" NAME="ACCOUNTING QUARTER" />
 ATTRIBUTE LABEL="ACCOUNTING WEEK ENDING"
NAME="ACCOUNTING WEEK ENDING" />
 ATTRIBUTE LABEL="ACCOUNTING YEAR" NAME="ACCOUNTING YEAR" />
 </DIMENSION>
---< DIMENSION LABEL="ACCOUNT" NAME="ACCOUNT D">
 SATTRIBUTE LABEL="ACCOUNT" NAME="ACCOUNT" />
 SATTRIBUTE LABEL="LINE NAME" NAME="LINE NAME" />
 ATTRIBUTE LABEL="LINE SEQUENCE KEY" NAME="LINE SEQUENCE KEY" />
 SATTRIBUTE LABEL="REPORT SECTION" NAME="REPORT SECTION" />
 RATTRIBUTE LABEL="REPORT SEQUENCE" NAME="REPORT SEQUENCE" />
  <attribute label="account key" name="account key" />
  <ATTRIBUTE LABEL="ACCOUNT DESCRIPTION" NAME="ACCOUNT DESC" />
  </DIMENSION>
- <DIMENSION LABEL="ACCOUNT ROLLUPS" NAME="ACCOUNT RLUP D">
  <attribute label="account" name="account" />
 <a tribute label="account key" name="account key" />
 <ATTRIBUTE LABEL="ACCOUNT ROLLUP DESCRIPTION" NAME="ROLLUP DESC" />
 <ATTRIBUTE LABEL="ACCOUNT ROLLUP CODE" NAME="ROLLUP CODE" />
 <ATTRIBUTE LABEL="ACCOUNT DESCRIPTION" NAME="ACCOUNT DESC" />
 </DIMENSION>
- <DIMENSION LABEL="AP HOLD CODES" NAME="AP HOLD CODE D">
 <ATTRIBUTE LABEL="AP HOLD CODE" NAME="AP HOLD CODE" />
 <ATTRIBUTE LABEL="AP HOLD CODE DESCRIPTION" NAME="AP HOLD CODE DESC"</p>
 <a href="AP HOLD CODE KEY" NAME="AP HOLD CODE KEY" />
 <a triangle <a><a triangle <a><a><a triangle <a><a triangle <a triangle <a><a triangle <a triangle <a><a triangle <a triangle <a><a triangle <a triangle 
 </DIMENSION>
```

#### **FIG. 23B**

</DIMENSION>

```
- < DIMENSION LABEL="AP HOLD STATUS" NAME="AP HOLD STATUS D">
      <ATTRIBUTE LABEL="AP HOLD STATUS" NAME="AP HOLD STATUS" />
      <ATTRIBUTE LABEL="AP HOLD STATUS KEY" NAME="AP HOLD STATUS KEY" />
      </DIMENSION>
- <DIMENSION LABEL="AP INVOICES" NAME="AP INVOICE D">
      <a href="AP"><a hr
      <ATTRIBUTE LABEL="AP INVOICE DATE" NAME="AP INVOICE DATE" />
      <a tribute label="ap invoice key" name="ap_invoice_key" />
      </DIMENSION>
- <DIMENSION LABEL="AP INVOICE TYPES" NAME="AP INVOICE TYPE D">
      <a triangle <a><a triangle <a triangle <a><a triangle <a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a triangle <a><a triangle <a triangle <a triangle <a><a triangle <a tri
      <a triple <a tri
      </DIMENSION>
- DIMENSION LABEL="AP PAYMENT TERMS" NAME="AP PAYMENT TERM D">
      SATTRIBUTE LABEL="AP PAYMENT TERM" NAME="AP PAYMENT TERM" />
     SATTRIBUTE LABEL="AP PAYMENT TERM DESCRIPTION"
NAME="AP PAYMENT TERM DESC" />
     ATTRIBUTE LABEL="AP PAYMENT TERM KEY" NAME="AP PAYMENT TERM KEY" />
      Z/DIMENSION>
    EDIMENSION LABEL="PO AUTHORIZER" NAME="AUTHORIZER D">
      ATTRIBUTE LABEL="AUTHORIZER" NAME="AUTHORIZER" />

SATTRIBUTE LABEL="AUTHORIZER KEY" NAME="AUTHORIZER KEY" />

✓

     - DIMENSION LABEL="BUYERS" NAME="BUYER D">
      ATTRIBUTE LABEL="BUYER" NAME="BUYER" />
      ATTRIBUTE LABEL="AUTHORIZATION LIMIT" NAME="BUYER AUTHORIZATION LIMIT"
       <a triver | <a tri
      <attribute label="buyer key" name="buyer key" />
      <ATTRIBUTE LABEL="START DATE ACTIVE" NAME="BUYER START DATE ACTIVE" />
      </DIMENSION>
- <DIMENSION LABEL="COMPANY" NAME="COMPANY D">
      <ATTRIBUTE LABEL="COMPANY" NAME="COMPANY" />
      <ATTRIBUTE LABEL="COMPANY DESCRIPTION" NAME="COMPANY DESC" />
      <a href="company"><a href="com
      </DIMENSION>
- <DIMENSION LABEL="CURRENCY" NAME="CURRENCY D">
      <attribute label="currency" name="currency" />
      <ATTRIBUTE LABEL="CURRENCY DESCRIPTION" NAME="CURRENCY DESC" />
      <a href="currency"><a href="curr
```

# **FIG. 23C**

```
- <DIMENSION LABEL="DEPARTMENT" NAME="DEPARTMENT D">
  <attribute label="department" name="department" />
   <ATTRIBUTE LABEL="DEPARTMENT KEY" NAME="DEPARTMENT KEY" />
   <ATTRIBUTE LABEL="DEPARTMENT DESCRIPTION" NAME="DEPARTMENT DESC" />
   </DIMENSION>
- <DIMENSION LABEL="DEPARTMENT ROLLUPS" NAME="DEPARTMENT RLUP D">
   <attribute label="department" />
   <ATTRIBUTE LABEL="DEPARTMENT ROLLUP DESC" NAME="ROLLUP DESC" />
   <ATTRIBUTE LABEL="DEPARTMENT ROLLUP CODE" NAME="ROLLUP CODE" />
   <ATTRIBUTE LABEL="DEPARTMENT DESCRIPTION" NAME="DEPARTMENT DESC" />
  <attribute label="department key" name="department_key" />
   </DIMENSION>
- <DIMENSION LABEL="AP DUE DATES" NAME="DUE DATE D">

ATTRIBUTE LABEL="DUE DATE KEY" NAME="DUE DATE KEY" />

  SATTRIBUTE LABEL="DUE MONTH" NAME="DUE MONTH" />
  SATTRIBUTE LABEL="DUE PERIOD" NAME="DUE PERIOD" />
  ATTRIBUTE LABEL="DUE PERIOD KEY" NAME="DUE PERIOD KEY" />
  .∜ATTRIBUTE LABEL="DUE PERIOD QUARTER" NAME="DUE_PERIOD QUARTER" />
   SATTRIBUTE LABEL="DUE QUARTER" NAME="DUE QUARTER" />
 ATTRIBUTE LABEL="DUE WEEK ENDING" NAME="DUE WEEK ENDING" />
 _<ATTRIBUTE LABEL="DUE YEAR" NAME="DUE YEAR" />
 ⊠/DIMENSION>
-
BDIMENSION LABEL="INVOICE DATES" NAME="INVOICE DATE D">
 ATTRIBUTE LABEL="INVOICE DATE KEY" NAME="INVOICE DATE KEY" />
 SATTRIBUTE LABEL="INVOICE MONTH" NAME="INVOICE MONTH" />
  ATTRIBUTE LABEL="INVOICE PERIOD" NAME="INVOICE PERIOD" />
   <ATTRIBUTE LABEL="INVOICE PERIOD KEY" NAME="INVOICE PERIOD KEY" />
   <a triangle <a tri
NAME="INVOICE PERIOD QUARTER" />
   <ATTRIBUTE LABEL="INVOICE QUARTER" NAME="INVOICE_QUARTER" />
  <a triangleright <a>ATTRIBUTE LABEL="INVOICE WEEK ENDING" NAME="INVOICE WEEK ENDING" /></a>
  <a triangle <a tri
  </DIMENSION>
- <DIMENSION LABEL="JE BATCHS" NAME="JE BATCH D">
  <attribute label="actual flag" name="actual flag" />
  <a href="https://www.name-"default-period-name"/>
  <attribute label="je batch key" name="je batch key" />
  <ATTRIBUTE LABEL="NAME" NAME="NAME" />
  <ATTRIBUTE LABEL="ORG ID" NAME="ORG ID" />
  <ATTRIBUTE LABEL="DESCRIPTION" NAME="DESCRIPTION" />
  <aTTRIBUTE LABEL="DATE CREATED" NAME="DATE CREATED" />
  </DIMENSION>
```

#### **FIG. 23D**

2304 ">

```
- <DIMENSION LABEL="ORGANIZATIONS" NAME="ORGANIZATION D">
   <ATTRIBUTE LABEL="ORGANIZATION" NAME="ORGANIZATION" />
   <ATTRIBUTE LABEL="ORGANIZATION KEY" NAME="ORGANIZATION KEY" />
   <ATTRIBUTE LABEL="ORGANIZATION TYPE" NAME="ORGANIZATION TYPE" />
   </DIMENSION>
- <DIMENSION LABEL="PA PROJECTS" NAME="PA PROJECT D">
   <a tribute label="project key" name="pa project key" />
   <a tribute label="Project complete date"
NAME="PROJECT COMPLETE DATE" />
   <a triple><attribute label="project manager" name="project manager" />
   <a triangle <a><a triangle <a triangle <a><a triangle <a triangle <a><a triangle <a triangle 
   <ATTRIBUTE LABEL="PROJECT NUMBER" NAME="PROJECT NUMBER" />
   <attribute label="project officer" name="project officer" />
  ATTRIBUTE LABEL="PROJECT SPONSOR" NAME="PROJECT SPONSOR" />
  SATTRIBUTE LABEL="PROJECT START DATE" NAME="PROJECT START DATE" />
  SATTRIBUTE LABEL="PROJECT STATUS" NAME="PROJECT STATUS" />
  ATTRIBUTE LABEL="PROJECT TITLE" NAME="PROJECT TITLE" />
  ATTRIBUTE LABEL="PROJECT TYPE" NAME="PROJECT TYPE" />
  S/DIMENSION>
   ₹DIMENSION LABEL="PA TASKS" NAME="PA TASK D">
  ~ATTRIBUTE LABEL="PARENT TASK KEY" NAME="PARENT TASK KEY" />
  SATTRIBUTE LABEL="TASK NAME" NAME="TASK NAME" />
  SATTRIBUTE LABEL="TASK MANAGER" NAME="TASK MANAGER" />
  ATTRIBUTE LABEL="TOP TASK NAME" NAME="TOP TASK NAME" />
  ATTRIBUTE LABEL="TOP TASK KEY" NAME="TOP_TASK_KEY" />
  ATTRIBUTE LABEL="TASK WBS" NAME="TASK_WBS" />
   <ATTRIBUTE LABEL="TASK START DATE" NAME="TASK START DATE" />
   <attribute label="task number" name="task number" />
  <ATTRIBUTE LABEL="TASK DESCRIPTION" NAME="TASK DESC" />
  <a href="Parent Task name" name="parent Task name" />
  <ATTRIBUTE LABEL="PROJECT KEY" NAME="PA_PROJECT_KEY" />
  <a triangle <a><a triangle <a triangle <a><a triangle <a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a triangle <a><a triangle <a triangle <a><a triangle <a triangle 
  <a tribute label="task key" name="pa task key" />
  </DIMENSION>
```

### **FIG. 23E**

```
- <DIMENSION LABEL="PERIODS" NAME="PERIOD D">
    <attribute label="period" name="period" />
   <a tribute label="Period end date" />
    <attribute label="period key" name="period key" />
    <a triple><attribute label="period start date" /></a>
    <ATTRIBUTE LABEL="PERIOD TYPE" NAME="PERIOD TYPE" />
   <attribute label="Quarter" name="Quarter" />
   <ATTRIBUTE LABEL="YEAR" NAME="YEAR" />
   </DIMENSION>
- <DIMENSION LABEL="PRODUCT" NAME="PRODUCT D">
   <attribute label="product" name="product" />
   <a tribute label="product description" name="product desc" />
   <attribute label="product key" name="product key" />

★DIMENSION>

- DIMENSION LABEL="PA PROJECT CLASSES" NAME="PROJECT CLASS D">
   ATTRIBUTE LABEL="PROJECT CLASS CATEGORY"
NAME="PROJECT CLASS CATEGORY" />
    ATTRIBUTE LABEL="PROJECT CLASS CODE" NAME="PROJECT CLASS CODE" />
    ATTRIBUTE LABEL="PROJECT CLASS DESCRIPTION"
NAME="PROJECT CLASS DESCRIPTION" />
  ATTRIBUTE LABEL="PROJECT KEY" NAME="PROJECT KEY" />

☑/DIMENSION>

-

■DIMENSION LABEL="PO REQUESTORS" NAME="REQUESTOR D">
  ATTRIBUTE LABEL="REQUESTOR" NAME="REQUESTOR" />
  SATTRIBUTE LABEL="REQUESTOR KEY" NAME="REQUESTOR_KEY" />
   ₹/DIMENSION>
- <DIMENSION LABEL="SUB-ACCOUNT" NAME="SUB ACCOUNT D">
   <ATTRIBUTE LABEL="SUB-ACCOUNT" NAME="SUB ACCOUNT" />
   <a tribute label="Sub-account key" name="Sub-account key" />
   <a triangle <a><a triangle <a><a triangle <a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a triangle <a triangle <a><a triangle <a triangle <a triangle <a><a triangle <a triangle <a triangle <a triangle <a triangle <a><a triangle <a triangle 
   </DIMENSION>
- <DIMENSION LABEL="AP VENDORS" NAME="VENDOR D">
   <ATTRIBUTE LABEL="ACTIVE END DATE" NAME="ACTIVE END DATE" />
   <attribute label="active flag" name="active flag" />
   <attribute label="active start date" name="active start date" />
   <a href="ADDRESS LINE1" NAME="ADDRESS LINE1" />
   <a href="ADDRESS"><a href="ADD
   <a href="ADDRESS LINE3" NAME="ADDRESS LINE3" />
   <a triangle <a tri
   <a tribute label="vendor site city" name="city" />
   <ATTRIBUTE LABEL="VENDOR HOLD REASON" NAME="HOLD REASON" />
   <attribute label="vendor site phone number" name="phone number" />
```

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# FIG. 23F

<ATTRIBUTE LABEL="VENDOR SITE PROVINCE" NAME="PROVINCE" /> <ATTRIBUTE LABEL="VENDOR SITE STATE" NAME="STATE" /> <a tribute label="vendor tax federal flag" NAME="TAX FEDERAL REPORT FLAG" /> <a tribute label="vendor tax reporting name" NAME="TAX REPORTING NAME" /> <ATTRIBUTE LABEL="VENDOR TAX STATE FLAG" NAME="TAX STATE REPORT FLAG"</p> /> <a tribute label="vendor 1099 number" name="vendor 1099 num" /> <ATTRIBUTE LABEL="VENDOR 1099 TYPE" NAME="VENDOR 1099 TYPE" /> <a tribute label="Vendor corporate group" NAME="VENDOR CORPORATE GROUP" /> <ATTRIBUTE LABEL="VENDOR INDUSTRY CLASS"</p> NAME="VENDOR INDUSTRY CLASS" /> **SATTRIBUTE LABEL="VENDOR KEY" NAME="VENDOR KEY" /> EATTRIBUTE LABEL="VENDOR NAME" NAME="VENDOR NAME" />** ATTRIBUTE LABEL="VENDOR NUMBER" NAME="VENDOR NUMBER" /> ATTRIBUTE LABEL="VENDOR ORGANIZATION TYPE" NAME="VENDOR ORG TYPE" /> NAME="VENDOR PAYMENT PRIORITY" /> =<ATTRIBUTE LABEL="VENDOR PAY GROUP" NAME="VENDOR PAY GROUP" /> SATTRIBUTE LABEL="VENDOR SITE CODE" NAME="VENDOR SITE CODE" /> ATTRIBUTE LABEL="VENDOR SITE KEY" NAME="VENDOR SITE KEY" /> SATTRIBUTE LABEL="VENDOR TYPE" NAME="VENDOR\_TYPE" /> SATTRIBUTE LABEL="VENDOR SITE ZIP" NAME="ZIP" /> ₹/DIMENSION> - <DIMENSION LABEL="AP INVOICE DETAILS" NAME="AP INV DETAIL F"> <ATTRIBUTE LABEL="ACCOUNTING DATE" NAME="ACCOUNTING DATE" /> <ATTRIBUTE LABEL="ACCOUNTING DATE KEY" NAME="ACCOUNTING DATE KEY" /> <ATTRIBUTE LABEL="ACCOUNT KEY" NAME="ACCOUNT KEY" /> <attribute label="approval status" name="approval status" /> <attribute label="ap invoice key" name="ap invoice key" /> <a href="AP"><a hr <ATTRIBUTE LABEL="AP PAYMENT TERM KEY" NAME="AP PAYMENT TERM KEY" /> <attribute label="buyer key" name="buyer key" /> <ATTRIBUTE LABEL="COMPANY KEY" NAME="COMPANY KEY" /> <ATTRIBUTE LABEL="INVOICE CURRENCY CODE" NAME="CURRENCY KEY" /> <ATTRIBUTE LABEL="DEPARTMENT KEY" NAME="DEPARTMENT KEY" /> <ATTRIBUTE LABEL="DUE DATE" NAME="DUE DATE" /> <a href=""><attribute label="Due date key" /></a> <a tribute label="total invoice amount" name="invoice amount" />

# **FIG. 23G**

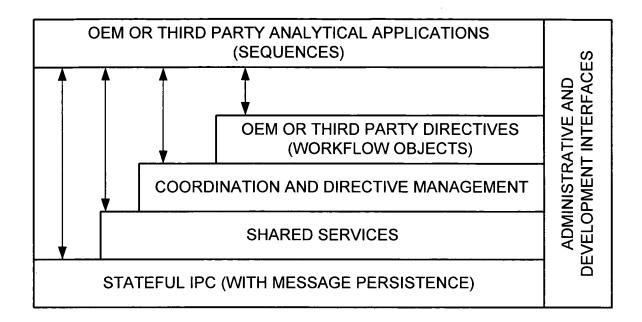
```
<ATTRIBUTE LABEL="INVOICE DATE" NAME="INVOICE DATE" />
 <attribute label="invoice date key" name="invoice date key" />
 <ATTRIBUTE LABEL="INVOICE DESCRIPTION" NAME="INVOICE DESC" />
 <ATTRIBUTE LABEL="INVOICE ID KEY" NAME="INVOICE ID KEY" />
 <ATTRIBUTE LABEL="INVOICE LINE DESCRIPTION" NAME="INVOICE LINE DESC" />
 <ATTRIBUTE LABEL="INVOICE LINE NUMBER" NAME="INVOICE LINE NUMBER" />
 <ATTRIBUTE LABEL="INVOICE LINE TYPE" NAME="INVOICE_LINE TYPE" />
 <a triple><attribute label="invoice number" name="invoice number" />
 <attribute label="invoice tax amount" name="invoice tax amount" />
 <ATTRIBUTE LABEL="ORGANIZATION KEY" NAME="ORGANIZATION KEY" />
 <attribute label="paid amount" name="paid amount" />
 <attribute label="pa project key" name="pa project key" />
 <attribute label="pa task key" name="pa task key" />
 ≰ATTRIBUTE LABEL="PERIOD KEY" NAME="PERIOD KEY" />
FATTRIBUTE LABEL="POSTED FLAG" NAME="POSTED FLAG" />
SATTRIBUTE LABEL="PO CREATION DATE" NAME="PO CREATED DATE" />
RATTRIBUTE LABEL="PO NUMBER" NAME="PO NUMBER" />
ATTRIBUTE LABEL="PRODUCT KEY" NAME="PRODUCT KEY" />
₹ATTRIBUTE LABEL="RECURRING INVOICE FLAG" NAME="RECURRING INVOICE FLAG" /
[_]
_<ATTRIBUTE LABEL="SUB-ACCOUNT KEY" NAME="SUB_ACCOUNT_KEY" />

ATTRIBUTE LABEL="TRANSLATED CURRENCY CODE"

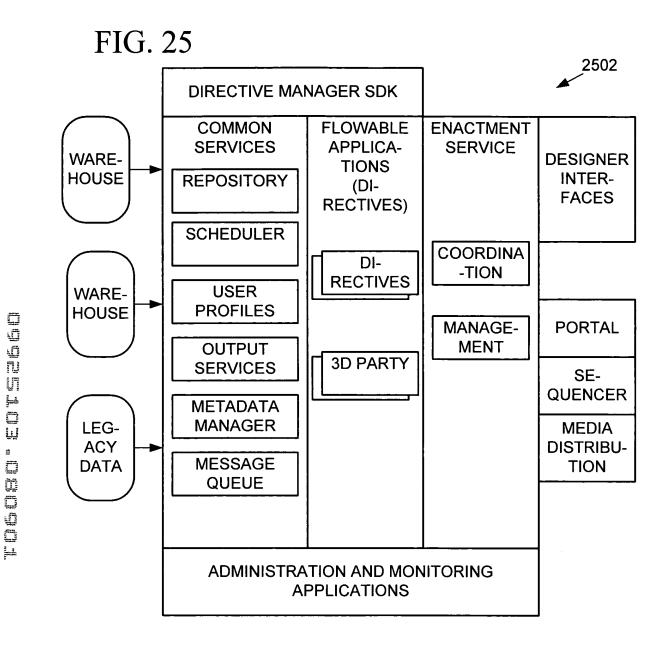
NAME="TRANSLATED CURRENCY CODE" />
SATTRIBUTE LABEL="VENDOR KEY" NAME="VENDOR KEY" />
DIMENSION>
/DP DIMENSIONS>
- TMEASURES LABEL="AP INVOICE DETAILS" NAME="AP INV DETAIL F">
 <MEASURE LABEL="ACCOUNTING (PRE-AP) LAG DAYS"</p>
NAME="ACCOUNTING LAG DAYS" />
 <MEASURE LABEL="INVOICE LINE AMOUNT" NAME="INVOICE LINE AMOUNT" />
 <MEASURE LABEL="INVOICE LINE EXCHANGE RATE VARIANCE"</p>
NAME="INVOICE LINE EXCH_RATE_VAR" />
 <MEASURE LABEL="INVOICE LINE PRICE VARIANCE"</p>
NAME="INVOICE LINE PRICE VARIANCE" />
 <MEASURE LABEL="NUMBER OF INVOICE LINES" NAME="NUMBER INVOICE LINES" />
 <MEASURE LABEL="TRANSLATED CURRENCY AMOUNT"</p>
NAME="TRANSLATED CURRENCY AMOUNT" />
<MEASURE LABEL="UNPAID AMOUNT" NAME="UNPAID AMOUNT" />
</MEASURES>
</DP SCHEMA DOC>
```

FIG. 24

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FIG. 26

